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Reserve for 1927-1928

OFFICIAL PUBLICATION

of the

UNIVERSITY OF MARYLAND

Vol. 23

June, 1926

No. 4

CATALOGUE

1926-1927



Containing general information concerning the University.
Announcements for the Scholastic Year 1926-27
and Records of 1925-26.

Issued monthly by the University of Maryland at College Park, Md.,
as second-class matter, under Act of Congress of July 16, 1894.

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Calendar for 1926, 1927, 1928

1926							1927							1928						
JULY							JANUARY							JANUARY						
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Calendar for 1926, 1927, 1928

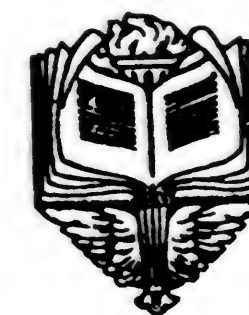
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UNIVERSITY CALENDAR

1926-1927

AT COLLEGE PARK

First Semester

1926		
Sept. 17-18	Friday	Registration for Freshmen.
Sept. 20-21	Monday-Tuesday	Registration for all other students.
Sept. 22	Wednesday	Instruction for first semester begins.
Sept. 27	Monday	Last day to register.
Sept. 29	Wednesday	Last day to change registration or to file schedule card without fine.
Nov. 11	Thursday	Observance of Armistice Day.
Nov. 24-29	Wednesday, 4.20 p. m. to Monday, 8.20 a. m.	Thanksgiving Recess.
Dec. 18	Saturday, 12 m.	Christmas Recess begins.
1927		
Jan. 3	Monday, 8.20 a. m.	Christmas Recess ends.
Jan. 19-22	Wednesday-Saturday	Registration for second semester.
Jan. 24-29	Monday-Saturday	First semester examinations.
Jan. 31	Monday	Last day to register for second semester without payment of late registration fee.

Second Semester

Feb. 1	Tuesday, 8.20 a. m.	Instruction for second semester begins.
Feb. 8	Tuesday	Last day to change registration or to file schedule card without fine.
Feb. 22	Tuesday	Washington's Birthday.
Mch. 25	Friday, 11.20 a. m.	Observance of Maryland Day.
Apr. 14-20	Thursday, 12 m. to Wednesday, 8.20 a. m.	Easter Recess.
May 11-12	Wednesday-Thursday	Festival of Music.
May 25-June 1	Wednesday-Wednesday	Second semester examinations for seniors.
May 28-June 4	Saturday-Saturday	Second semester examinations.
May 30	Monday	Memorial Day.
June 5	Sunday, 11 a. m.	Baccalaureate Sermon.
June 6	Monday	Class Day.
June 7	Tuesday, 11 a. m.	Commencement.

Summer Term

June 13-18	Monday-Saturday	Rural Women's Short Course.
June 22	Wednesday	Summer School begins.
Aug. 2	Tuesday	Summer School ends.
Aug. 4-9	Thursday-Tuesday	Boys' and Girls' Club Week.

AT BALTIMORE

First Semester

1926		
Sept. 13	Monday	Instruction begins for first semester—School of Law.
Sept. 27	Monday	Last day to register—School of Law. Instruction begins for first semester: School of Medicine. School of Dentistry. School of Pharmacy.
Oct. 4	Monday	Last day to register: School of Medicine. School of Dentistry. School of Pharmacy.
Nov. 11	Thursday	Armistice Day. Holiday. (All Schools.)
Nov. 25	Thursday	Thanksgiving Day. Holiday. (All Schools.)
Dec. 18	Saturday	Christmas Holiday begins after last class period. (All Schools.)
1927		
Jan. 3	Monday	Christmas Holiday ends. Instruction begins with first class period. (All Schools.)
Jan. 17	Monday	Registration begins for second semester. (All Schools.)

Second Semester

Jan. 24	Monday	Instruction begins for second semester—School of Law.
Jan. 31	Monday	Instruction begins for second semester: School of Medicine. School of Dentistry. School of Pharmacy.
Feb. 5	Saturday	Last day to register—School of Law. Last day to register: School of Medicine. School of Dentistry. School of Pharmacy.
Feb. 7	Monday	Instruction begins for second semester—School of Pharmacy.
Feb. 22	Tuesday	Washington's Birthday. (Holiday.)
Apr. 14	Thursday	Easter Holiday begins after last class period. (All Schools.)
Apr. 19	Tuesday	Easter Holiday ends. Instruction begins with first class period. (All Schools.)
June 4	Saturday	Commencement Day. (All Schools.)

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BOARD OF REGENTS

SAMUEL M. SHOEMAKER, Chairman	1924-1933
Eccleston, Baltimore County	
ROBERT CRAIN	1924-1933
Mt. Victoria, Charles County	
JOHN M. DENNIS, Treasurer	1923-1932
Union Trust Co., Baltimore	
DR. FRANK J. GOODNOW	1922-1931
6 West Madison Street, Baltimore	
JOHN E. RAINE	1921-1930
413 East Baltimore Street, Baltimore	
CHARLES C. GELDER	1920-1929
Princess Anne, Somerset County	
DR. W. W. SKINNER, Secretary	1919-1927
Kensington, Montgomery County	
B. JOHN BLACK	1918-1926
Randallstown, Baltimore County	
HENRY HOLZAPFEL	1925-1934
Hagerstown, Washington County	

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DR. FRANK J. GOODNOW	B. JOHN BLACK
ROBERT CRAIN	JOHN M. DENNIS

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ROBERT CRAIN	DR. W. W. SKINNER

EXPERIMENT STATION AND INVESTIGATIONAL WORK

B. JOHN BLACK, Chairman	
DR. W. W. SKINNER	HENRY HOLZAPFEL

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ROBERT CRAIN, Chairman	
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INSPECTION AND CONTROL WORK

JOHN M. DENNIS, Chairman	
HENRY HOLZAPFEL	CHARLES C. GELDER

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* Resignation effective August 31, 1926.

† Assumes Presidency September 1, 1926.

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 MARY E. SAVAGE, B.A., Fellow in Social Science.
 M. J. HORN, B.S., Fellow in Chemistry.
 M. LEATHERMAN, M.S., Fellow in Chemistry.
 H. L. MARSHALL, B.S., Fellow in Chemistry.
 I. E. MCKINNELL, B.A., Fellow in Chemistry.
 P. V. MOOK, B.S., Fellow in Botany.
 C. R. RUNK, M.S., Fellow in Soils.
 R. L. SUMMERILL, B.S., Fellow in Chemistry.
 H. M. WALTER, B.S., Fellow in Chemistry.
 G. B. COOKE, B.S., Graduate Assistant in Chemistry.
 H. A. HUNTER, B.S., Graduate Assistant in Plant Pathology.
 H. S. ISBELL, M.S., Graduate Assistant in Chemistry.
 R. P. STRAKA, B.S., Graduate Assistant in Bacteriology.
 R. F. WADKINS, B.S., Graduate Assistant in Plant Pathology.
 I. E. WHEATON, B.S., Graduate Assistant in Bacteriology.

FACULTY COMMITTEES—1926-1927

College Park

ALUMNI

Messrs. Bomberger, Hoshall, Byrd, Hillegeist, Cory, Eppley, Broughton and Truitt.

BUILDINGS

Messrs. Crisp, Johnson, Meade, Pierson, Bruce, Mackert, Eichlin and Harvey.

CATALOGUE, STUDENT ENROLLMENT AND ENTRANCE

Messrs. Small, Zimmerman, Lee, Johnson, Appleman, Johnston, and Misses Mount, Stamp and Preinkert.

CLASS ASSIGNMENT

Messrs. Carpenter, Eppley, M. F. Welsh, Pyle, Hennick, Kramer, Lemon, Mrs. Welsh, Misses Anderson, Harman, Preinkert and one member from the Military Department.

COMMENCEMENT AND MARYLAND DAY

Messrs. T. H. Taliaferro, Richardson, House, Everett, Thurston, Cory, Truitt and Miss Mount.

EDUCATIONAL STANDARDS

Messrs. Appleman, Lee, Gordon, Johnson, Small, McCall, Zucker, Freeman and Hillegeist.

FARMERS' DAY

Messrs. Patterson, Symons, Zimmerman, Waite and Miss Mount.

GROUNDS AND ROADS.

Messrs. Auchter, Thurston, Crisp, Patterson, Steinberg, Metzger, Carpenter and Gwinner.

INSTRUCTION

Messrs. Lee, Cotterman, Creese, Gordon, Kemp, Everett, Pickens, Pierson, Auchter, Mrs. McFarland, Miss Preinkert and Deans Ex-officio.

LIBRARY

College Park:

Messrs. Appleman, W. T. L. Taliaferro, House, Steinberg, Zucker and Miss Barnes.

Baltimore:

(Medicine) Doctors Wylie, McGlannan and Lockard; (Dentistry) Doctors Gaver, Zelwis, Aisenberg and McDonald; (Pharmacy) Messrs. Plitt and Krantz and Miss Cole; (Law) Messrs. Sappington, Rose and Freeman; and Mrs. Briscoe.

PRE-MEDICAL EDUCATION

Messrs. Broughton, Cory, Davis, Lee, Spence, Wylie and M. F. Welsh.

SANITATION

Messrs. Pickens, Griffith, Reed, W. T. L. Taliaferro, Pyle, Small and Miss Mount.

STUDENT AFFAIRS

Messrs. Small, Byrd, Broughton, Johnson, Spence, Kemp, Palmer, Mackert and Misses Stamp and McNaughton.

STUDENT BUSINESS AND AUDITING

Miss McKenney and Messrs. Spann, Hoshall, Mackert, Shadick, Bowers and Newman, and President of the Students' Assembly.

STUDENT LOANS

Misses McKenney and Preinkert, W. T. L. Taliaferro, and President of the Senior Class.

AGRICULTURAL EXPERIMENT STATION STAFF

HARRY J. PATTERSON, D.Sc. Director and Chemist.

Agricultural Economics:

S. H. DeVault, A.M., Ph.D. Agricultural Economics.
 PAUL WALKER, M.S. Assistant Agricultural Economics.
 W. J. HART, M. S. Assistant Agricultural Economics.

Agronomy:

J. E. METZGER, B.S., A.M. Agronomy.
 W. B. KEMP, B.S. Associate, Agronomy.
 G. EPPLEY, B.S. Assistant, Agronomy.
 R. F. HALE, B.S. Assistant, Agronomy.
 R. G. ROTHGEB, M.S. Assistant, Agronomy.
 R. L. SELLMAN, B.S. Assistant, Agronomy and Superin-
 tendent of Farm.

Animal and Dairy Husbandry:

DeVOE MEADE, Ph.D. Dairy and Animal Husbandry.
 B. E. CARMICHAEL, M.S. Animal Husbandry.
 HARLOW BIERMAN, M.S. Assistant, Dairy Husbandry.
 S. H. HARVEY, M.S. Assistant, Dairy Manufacturing.
 L. W. INGHAM, M.S. Assistant, Dairy Production.
 R. C. MUNKWITZ, M.S. Assistant, Market Milk.

Animal Pathology and Bacteriology:

E. M. PICKENS, A.M., D.V.M. Animal Pathology.
 H. B. McDONNELL, M.S., M.D. Pathological Chemist.
 L. J. POELMA, D.V.M. Assistant, Animal Pathology.
 W. R. CRAWFORD, D.V.M. Assistant, Pathologist.
 M. B. MELROY, M.S. Assistant, Bacteriology.

Botany:

P. W. ZIMMERMAN, Ph.D. Botany and Plant Propagation.

Entomology:

E. N. CORY, M.S. Professor, Entomology.
 H. S. McCONNELL, M.S. Associate, Entomology.
 PAUL KNIGHT, B.S. Assistant, Entomology.
 H. H. SHEPHERD, B.S. Assistant, Entomology.
 PAUL Z. PELTIER, B.S. Assistant, Entomology.

Horticulture:

E. C. AUCHTER, Ph.D. Horticulture.
 F. W. GEISE, M.S. Olericulture.
 T. H. WHITE, M.S. Olericulture and Floriculture.
 A. L. SCHRADER, Ph. D. Associate, Pomology.
 V. R. BOSWELL, M.S. Assistant, Olericulture.

Plant Pathology:

J. B. S. NORTON, M.S., D.Sc. Plant Pathology.
 R. A. JEHLE, Ph.D. Associate, Plant Pathologist.
 A. J. MOYER, B.S. Assistant, Plant Pathologist.

Plant Physiology:

C. O. APPLEMAN, Ph.D. Plant Physiology.
 E. S. JOHNSTON, Ph.D. Associate, Plant Physiology.
 C. M. CONRAD, Ph.D. Assistant, Plant Physiology.
 C. L. SMITH, B.S. Assistant, Plant Physiology.

Poultry Husbandry:

R. H. WAITE, B.S. Poultry Husbandry.
 F. H. LEUSCHNER, B.S. Assistant, Poultry Husbandry.

Seed Inspection:

F. S. HOLMES, B.S. Inspector.
 ANNA M. H. FERGUSON Assistant, Analyst.
 ELLEN EMACK Assistant, Analyst.
 OLIVE M. KELK Assistant, Analyst.
 RUTH M. MOSTYN Assistant, Analyst.
 KATHERINE SMITH Assistant, Analyst.

Soils:

A. G. McCALL, Ph.D. Soils.
 R. R. McKIBBIN, M.S. Assistant, Soils.
 J. M. SNYDER, B.S. Assistant, Soils.
 H. B. WINANT, M.S. Assistant, Soils.

EXTENSION SERVICE STAFF

*THOMAS B. SYMONS, M.S., D.Agr.	Director.
*F. B. BOMBERGER, B.S., A.M., D.Sc.	Assistant Director, Specialist in Rural Organization and Marketing; and Chief, Maryland State Department of Markets.
*E. G. JENKINS	State Boys' Club Agent.
*MISS VENIA M. KELLAR, B.S.	State Home Demonstration Agent.
*MISS DOROTHY EMERSON	Girls' Club Agent.
*MRS. HELEN V. MCKINLEY, B.S.	District Agent and Clothing Specialist.
†E. C. AUCHTER, M.S., Ph.D.	District Agent and Nutrition Specialist.
W. R. BALLARD, B.S.	Specialist in Horticulture.
	Specialist in Vegetable and Landscape Gardening.
M. D. BOWERS, B.S.	Specialist in Agricultural Journalism.
†R. W. CARPENTER, A.B.	Specialist in Agricultural Engineering.
K. A. CLARK, M.S.	Specialist in Animal Husbandry.
J. A. CONOVER, B.Sc.	Specialist in Dairying.
†E. N. CORY, M.S.	Specialist in Entomology.
†S. H. DeVault, A.M., Ph.D.	Specialist in Marketing.
H. A. HUNTER, B.S.	Assistant in Plant Pathology.
†R. A. JEHLE, B.S.A., Ph.D.	Specialist in Pathology.
†DeVoe MEADE, Ph.D.	Specialist in Animal Husbandry.
F. W. OLDENBURG, B.S.	Specialist in Agronomy.
W. H. RICE, B.S.	Specialist in Poultry.
†C. S. RICHARDSON, A.M.	Specialist in Educational Extension.
P. D. SANDERS, M.S.	Assistant in Entomology.
S. B. SHAW, B.S.	Chief Inspector and Specialist in Marketing.
†W. T. L. TALIAFERRO, A.B., Sc.D.	Specialist in Farm Management.
†C. E. TEMPLE, M.A.	Specialist in Plant Pathology.
F. B. TRENK, B.S.	Specialist in Forestry.
A. F. VIERHELLER, M.S.	Specialist in Horticulture.
L. M. GOODWIN, B.S.	Specialist in Canning Crops.

COUNTY AGENTS

County	Name	Headquarters
Allegany	*R. F. McHENRY, B.S.	Cumberland.
Anne Arundel	*J. M. HUFFINGTON, B.S.	Annapolis.
Baltimore	*W. C. ROHDE, B.S.	Towson.
Calvert	*S. R. NEWELL, B.S.	Prince Frederick.
Caroline	*T. D. HOLDER, B.S.	Denton.
Carroll	*E. K. WALRATH, B.S.	Westminster.

* In cooperation with the United States Department of Agriculture.
 † Devoting part time to Extension Work.

Cecil	*T. H. BARTILSON, B.S.	Elkton.
Charles	*G. R. STUNTZ, B.S.	La Plata.
Dorchester	*W. R. McKNIGHT, B.S.	Cambridge.
Frederick	*P. W. CHICHESTER, B.S.	Frederick.
Garrett	*W. C. JESTER, M.S.	Oakland.
Harford	*B. B. DERRICK, B.S.	Bel Air.
Howard	*M. H. FAIRBANK	Ellicott City.
Kent	*H. B. DERRICK, B.S.	Chestertown.
Montgomery		Rockville.
Prince George's	*W. B. POSEY, B.S.	Upper Marlboro.
Queen Anne's	*E. W. GRUBB, B.S.	Centreville.
St. Mary's	*G. F. WATHEN	Loveville.
Somerset	*C. Z. KELLER, B.S.	Princess Anne.
Talbot	*E. P. WALLS, M.S.	Easton.
Washington	*M. D. MOORE, M.S.	Hagerstown.
Wicomico	*J. P. BROWN, B.S.	Salisbury.
Worcester	*E. I. OSWALD, B.S.	Snow Hill.

Assistant County Agents

Baltimore	*F. L. BULL, B.S.	Towson.
Harford	*O. W. ANDERSON, M.S. (Acting County Agent)	Bel Air.
Harford	*H. M. CARROLL, B.S.	Bel Air.

Local Agents

Southern Maryland	*J. F. ARMSTRONG (Col.)	Seat Pleasant.
Eastern Shore	*L. H. MARTIN (Col.)	Princess Anne.

COUNTY HOME DEMONSTRATION AGENTS

County	Name	Headquarters
Allegany	*MAUDE A. BEAN	Cumberland.
Anne Arundel	*MRS. G. LINTHICUM	Annapolis.
Baltimore	*MARY GRAHAM	Towson.
Caroline	*BESSIE SPAFFORD, B.S.	Denton.
Carroll	*ISABELLE COBB, A.B., M.A.	Westminster.
Cecil	*LILLIAN R. GRIMM, B.S.	Elkton.
Charles	*ULA FAY	La Plata.
Dorchester		Cambridge.
Frederick	*ELIZABETH R. THOMPSON, B.S.	Frederick.
Garrett	*LOLA B. GREEN, B.S.	Oakland.
Harford	*EVA K. SCHURR, B.S.	Bel Air.
Howard	*VIDA N. METZGER, B.S.	Ellicott City.
Kent	*SUSAN V. HILL	Chestertown.

* In cooperation with the United States Department of Agriculture.
 † On leave of absence.

Montgomery.....	*BLANCHE A. CORWIN, B.S.....	Rockville.
Prince George's.....	*BLANCHE CLARK.....	Hyattsville.
St. Mary's.....	*ETHEL JOY.....	Leonardtown.
Talbot.....	*MRS. OLIVE K. WALLS.....	Easton.
Washington.....	*MARGARET SMITH, B.S.....	Hagerstown.
Wicomico.....	*.....	Salisbury.
Worcester.....	*LUCY J. WALTER.....	Snow Hill.

Assistant Home Demonstration Agent

Frederick.....	*LORA E. SLEEPER, B.S.....	Frederick.
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Local Home Demonstration Agent

Charles and St. Mary's.....	*LEAH W. HOPEWELL.....	La Plata.
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Garden Specialists

Madison and Lafayette Aves., Administration Building.....	MRS. ADELAIDE DERRINGER.....	Baltimore.
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* In cooperation with the United States Department of Agriculture.

SECTION I

GENERAL INFORMATION

HISTORICAL STATEMENT

The history of the present University of Maryland is the history of two institutions until they were merged in 1920. These were the old University of Maryland in Baltimore and the Maryland State College in College Park.

The beginning of this history was in 1807 when a charter was granted to the College of Medicine of Maryland. The first class was graduated in 1810. A permanent home was established in 1814-1815 by the erection of the building at Lombard and Greene Streets in Baltimore, the oldest structure in America devoted to medical teaching. Here was founded one of the first medical libraries and the first medical school library in the United States. In 1812 the General Assembly of Maryland authorized the College of Medicine of Maryland to "annex or constitute faculties of divinity, law and arts and sciences," and by the same act declared that the "colleges or faculties thus united should be constituted an university by the name and under the title of the University of Maryland." By authority of this act, steps were taken in 1813 to establish a "faculty of law," and in 1823 a regular school of instruction in law was opened. Subsequently there were added a college of dentistry, a school of pharmacy and a school of nursing. No significant change in the organization of the University occurred until 1920, more than one hundred years after the original establishment in 1812.

The Maryland State College was chartered in 1856 under the name of the Maryland Agricultural College, the second agricultural college in the Western Hemisphere. For three years the College was under private management. In 1862 the Congress of the United States passed the Land Grant Act. This act granted each State and Territory that should claim its benefits a proportionate amount of unclaimed Western lands, in place of scrip, the proceeds from the sale of which should apply under certain conditions to the "endowment, support and maintenance of at least one college where the leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such a manner as the Legislatures of the States may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life." This

grant was accepted by the General Assembly of Maryland, and the Maryland Agricultural College was named as the beneficiary of the grant. Thus the College became, at least in part, a State institution. In the fall of 1914 control was taken over entirely by the State. In 1916 the General Assembly granted a new charter to the College and made it the Maryland State College.

In 1920, by an act of the State Legislature, the University of Maryland was merged with the Maryland State College, and the name of the latter was changed to the University of Maryland.

All the property formerly held by the old University of Maryland was turned over to the Board of Trustees of the Maryland State College, and the name was changed to the Board of Regents of the University of Maryland. Under this charter every power is granted necessary to carry on an institution of higher learning and research. It provides that the University shall receive and administer all existing grants from the Federal Government for education and research and all future grants which may come to the State from this source. The University is co-educational in all its branches.

ADMINISTRATIVE ORGANIZATION

The government of the University is vested by law in a Board of Regents, consisting of nine members appointed by the Governor each for a term of nine years. The administration of the University is vested in the President. The University Senate and the Administrative Council act in an advisory capacity to the President. The composition of these bodies is given elsewhere.

The University organization comprises the following administrative divisions:

- College of Agriculture.
- Agricultural Experiment Station.
- Extension Service.
- College of Arts and Sciences.
- College of Education.
- College of Engineering.
- College of Home Economics.
- Graduate School.
- Summer School.
- Department of Military Science and Tactics.
- Department of Physical Education and Recreation.
- School of Business Administration.
- School of Dentistry.
- School of Law.
- School of Medicine.
- School of Nursing.
- School of Pharmacy.

The University faculty consists of the President, Deans, the instructional staffs of all the divisions of the University and the Librarians. The faculty of each college or school constitutes a group which passes on all questions that have exclusive relationship to the division represented. The President is ex-officio a member of all of the faculties.

The organization and activities of the several administrative divisions are described in full in the appropriate chapters of Section II.

THE EASTERN BRANCH

The Eastern Branch of the University of Maryland is located at Princess Anne, Somerset County. It is maintained for the education of negroes in agriculture and the mechanic arts.

LOCATION

The University of Maryland is located at College Park in Prince George's County, Maryland, on the line of the Washington branch of the Baltimore and Ohio Railroad, eight miles from Washington and thirty-two miles from Baltimore. At least eight trains a day from each city stop at College Station, thus making the place easily accessible from all parts of the State. Telephone connection is made with the Chesapeake and Potomac lines.

The grounds front on the Baltimore and Washington Boulevard. The suburban town of Hyattsville is two miles to the south, and Laurel is ten miles to the north on the same road. Access to these towns and to Washington may be had by steam and electric railway.

The Schools of Medicine, Pharmacy, Dentistry, Law, and Business Administration of the University are located in Baltimore at the corner of Lombard and Greene Streets.

EQUIPMENT

The University equipment of grounds and buildings in College Park and Baltimore is as follows:

College Park

Grounds. The University grounds at College Park comprise about 300 acres. The site is healthful and attractive. The terrain is varied. A broad rolling campus is surmounted by a commanding hill which overlooks a wide area of surrounding country and ensures excellent drainage. Many of the original forest trees remain. Most of the buildings are located on this eminence. The adjacent grounds are laid out attractively in lawns and terraces ornamented with shrubbery and flower beds. Below the brow of the hill, on either side of the Washington-Baltimore Boulevard, lie the drill grounds and the athletic fields. The buildings of the Agricultural Experiment Station face the boulevard. The farm of the College of Agriculture contains about 240 acres, and is devoted to fields, gardens, orchards, vineyards, poultry yards, etc., which are used for experimental purposes and demonstration work in agriculture and horticulture.

The sanitary conditions are excellent, as shown by the almost complete absence for many years of serious cases of illness among the students. The University maintains its own water supply protected by a modern filtration plant. The water is analyzed weekly. Plans for the location of future buildings have been worked out with due regard to engineering problems and landscape effects.

Buildings. The equipment of buildings comprises about twenty individual structures which provide facilities for the several activities and services carried on at College Park.

Administration and Instruction. This group consists of the following buildings: The Agricultural Building, which accommodates the Executive Offices, the College of Agriculture, the College of Education, the College of Home Economics, the Agricultural and Home Economics Extension Service and the Auditorium; Morrill Hall, which accommodates in part the College of Arts and Sciences; Engineering Building, which houses the College of Engineering; Chemical Building for instruction in Chemistry and for State work in analysis of feeds, fertilizers and agricultural lime; Dairy Building; Horticultural Building; Stock Judging Pavilion; Poultry Buildings.

Experiment Station Group. This group consists of the main building, a large brick structure of the colonial period, housing the office of the Director, the office of the Dean of the Graduate School and laboratories for research in chemistry and plant physiology; other smaller buildings for housing the laboratories for research in soils and for seed testing; an agronomy building; a secondary horticulture building; and barns, farm machinery building, silos and other structures required in agricultural research.

Physical Education. This group consists of the Ritchie Gymnasium, which provides quarters for the Military Department as well as for physical education; and the Byrd Stadium, with a seating capacity of 5,000 and furnished with dressing rooms for contestants, rest rooms for patrons and equipment for receiving and transmitting information concerning contests in progress.

Dormitories. Two dormitories, Calvert Hall and Silvester Hall, provide accommodations for 462 men students. Accommodations for 52 women students are provided by three buildings, Gerneaux Hall, a temporary structure and Practice House. The last serves also as a demonstration home for the College of Home Economics.

Service Structures. This group includes the Central Heating and Power Plant; the Filtration Plant; the Infirmary with accommodations for twenty patients; physician's office, operating room and nursing quarters; Dining Hall; laundry.

New Buildings. Money was appropriated by the last Legislature for two new buildings, a Dining Hall and a Science Building. The Dining Hall is now in process of construction and will be complete and ready for use before the opening of the next college year. The Science Building should be ready for use before the close of the next college year.

Buildings in Baltimore

The group of buildings located at the corner of Lombard and Greene Streets provides the available housing for the Baltimore division of the University. There are no grounds other than the sites of these buildings. The group comprises the original Medical School building erected in 1814, the University Hospital and the Law School building. Full description of these parts of the University equipment are found in the chapters devoted to the Baltimore Schools in Section II.

Libraries

Libraries are maintained at both the College Park and the Baltimore branches of the University.

The Library at College Park is housed in a separate two-story building. The first floor is devoted to collected material relating to agriculture. The special catalogue cards issued by the United States Department of Agriculture make accessible the large number of State and national bulletins on agriculture and related scientific subjects. The general reference books and the reading room occupy the second floor. The Library is open from 8:15 A. M. to 5:30 P. M., Monday to Friday inclusive; Saturday from 8:15 A. M. to 12:30 P. M.; Sunday afternoon from 2:30 P. M. to 5:30 P. M., and all evenings except Saturday from 6 P. M. to 10 P. M.

The Library facilities in Baltimore for the Schools of Medicine, Law, Dentistry, Pharmacy and Business are consolidated and housed in Davidge Hall. The Library hours during the University year are from 9 A. M. to 10 P. M. daily, except Saturday, when it closes at 6 P. M.

The Libraries, including departmental libraries, contain a total of 42,080 bound volumes and large collections of unbound journals. In the two central libraries there are approximately 12,000 United States Government documents, unbound reports and pamphlets.

Through the Inter-library Loan Systems of the Library of Congress, the United States Department of Agriculture and other Government Libraries, the University Library is able to supplement its reference material either by arranging for personal work in those Washington Libraries or by borrowing the books from them.

INCOME

The University is supported by funds appropriated for its use by the State and Federal Governments, fees from students and funds from other sources. The appropriations from the Federal Government are derived

from the original Land Grant Act, from the second Morrill Act, the Nelson Act, the Smith-Hughes and Smith-Lever Acts and the Hatch and Adams Acts.

ENTRANCE

All communications regarding entrance should be addressed to the Registrar, who administers the entrance requirements for all departments of the University. Communications pertaining to entrance to the College Park Colleges should be addressed to the Registrar, University of Maryland, College Park, Maryland; those pertaining to the Baltimore Schools, to the Registrar, University of Maryland, Lombard and Greene Streets, Baltimore, Maryland.

GENERAL INFORMATION

Age of Applicants. No applicant who is less than sixteen years of age will be admitted to any of the Colleges or Schools of the University.

Entrance Preliminaries. Candidates for admission should apply as early as possible to the Registrar for the necessary forms for the transfer of preparatory credits. These forms after they are made out and signed by the high school principal should be returned to the Registrar. It is advisable for prospective students to attend to this preliminary as early as possible, in order to make sure that the units offered are sufficient and acceptable. A candidate who fails to attend to this preliminary may find after reaching the University that he cannot enter. The Registrar is always glad to advise with the students either by correspondence or in person concerning their preparation. The Registrar sends out a general statement of the procedure for new students to follow after they are duly admitted to the University.

Time of Admission. Applicants for admission should plan to enter at the beginning of the school year in September. It is possible to be admitted to certain Colleges at the beginning of either semester, but students can seldom enter the University to advantage except at the opening of the school year.

Registration. Registration for the first semester *except of Freshmen* takes place during the first two days of the term. Students register for the second semester during the week preceding final examinations.

After seven days from the opening of a semester, fees are imposed for a change of registration or for late registration.

Students who, for any reason, are more than seven days late in registering must secure permission from the instructors in charge for admission to courses. Such permission must be given in writing to the student's dean before course cards will be issued.

Freshman Registration. Registration of freshmen for the first semester will take place Friday, September 17th, beginning at 9 A. M. All

freshmen are expected to register on this date. Monday, September 20th, and Tuesday, September 21st, are reserved for registering students of the three upper classes and freshmen will not be registered on those days. (See above penalty for late registration.)

Dormitories will be ready for occupancy by freshmen Thursday, September 16th, and the dining hall will be ready to serve supper to freshmen Thursday evening.

A special freshman program is planned covering the time between registration day (September 17th) and the beginning of the instruction schedule (Wednesday, September 22nd), the object of which is to complete organization of freshmen so that they may begin the regular work promptly and effectively on Wednesday, the 22nd, and to familiarize them with their new surroundings. This program includes classification of all freshmen students; medical examinations, beginning on Friday, September 17th; psychological examinations, Monday morning, September 20th; instruction in regard to the departmental and campus facilities and advisory conferences conducted by the faculties of the several colleges for the students registered in those colleges. On Friday evening the President and faculties will receive the students in the gymnasium; on Saturday evening an entertainment will be provided in the Assembly Hall; on Sunday there will be one religious service.

On or about September 1st the Registrar will send all prospective freshmen a detailed statement of this program.

REQUIREMENTS FOR ADMISSION

In general the requirements for admission to the freshman class are the same as those prescribed for graduation by the approved high schools of Maryland.

High or preparatory school work is evaluated on the basis of "units." A unit represents a year's study in any subject in a secondary school, and constitutes approximately one-fourth of a full year's work. It presupposes a school year of 36 to 40 weeks, recitation periods of from 40 to 60 minutes, and for each study four or five class exercises a week. Two laboratory periods in any science or vocational study are considered as equivalent to one class exercise.

Fifteen units, the equivalent of a four-year high school curriculum, are required for admission to all the undergraduate colleges. The additional and special requirements for admission to the professional schools and the Graduate School are given in detail in the chapters devoted to those schools.

Prescribed Units. The following units are required of all candidates for admission:

English	3
Mathematics (Preferably Algebra to Quadratics; Plane Geometry) ..	2
Science	1
History	1
Total Prescribed	7

In addition to these seven prescribed units, the following are required:

- (a) For the Pre-Medical curriculum: two years of foreign language.
- (b) For the Engineering curriculum: an additional unit and a half of mathematics, consisting of algebra, *completed*, one unit (effective September, 1927); solid geometry, one-half unit. Opportunity to acquire the solid geometry is afforded in the Summer School.

Students entering with conditions in prescribed subjects must remove such conditions before enrolling for the second year.

Elective Units. In addition to the prescribed units, a sufficient number of units to make a total of fifteen must be offered from the following elective subjects:

Agriculture	Geology
Astronomy	History
Biology	Home Economics
Botany	Industrial Subjects
Chemistry	Language
Civics	Mathematics
Commercial Subjects	Music
Drawing	Physical Geography
Economics	Physics
English	Physiology
General Science	Zoology

METHODS OF ADMISSION

Students are admitted to the University by certificate from approved preparatory schools, by transfer from other colleges or universities, or by examination, and must be recommended by the Principal.

Admission by Certificate from Approved Preparatory Schools. A candidate for admission by *certificate* must be a *graduate* of an approved secondary school.

The following groups of secondary schools are approved:

- (1) Secondary schools approved by the Maryland State Board of Education.
- (2) Secondary schools accredited by the Association of Colleges and Preparatory Schools of the Southern States.

- (3) Secondary schools accredited by the North Central Association of Colleges and Secondary Schools.
- (4) Secondary schools accredited by the State Universities which are included in the membership of the North Central Association of Colleges and Secondary Schools.
- (5) Secondary schools approved by the New England College Entrance Certificate Board.
- (6) High schools and academies registered by the Regents of the University of the State of New York.
- (7) High and preparatory schools on the accredited list of other State Boards of Education where the requirements for graduation are equivalent to the standard set by the Maryland State Board of Education.
- (8) State Normal Schools of Maryland and other State Normal Schools having equal requirements for graduation.

For admission by certificate the applicant should file, with the Registrar of the University as soon as possible after the close of the school year in June, a certificate of recommendation made out on the blank form furnished by the University.

Admission by Transfer from Other Colleges or Universities. A candidate for admission by transfer from another College or University must present evidence that he has maintained a satisfactory and honorable record at the institution which he has attended, in addition to having satisfied the entrance requirements of the University of Maryland.

For admission by transfer the applicant should file with the Registrar as soon as possible after the close of the school year in June a Certificate of Recommendation made out on the blank form furnished by the University. In addition he should have furnished the Registrar, by the institution he has attended, a complete official transcript of his record, together with a statement of honorable dismissal.

Advanced Standing. Advanced standing is granted to students transferring from institutions of collegiate rank for work completed which is equivalent in extent and quality to the work of the University of Maryland, subject to the following provisions:

- (1) Regardless of the amount of advanced standing a student may secure, in no case will he be given the baccalaureate degree with less than one year of resident work.
- (2) Regardless of the amount of advanced standing a student may secure, in no case will he be given the baccalaureate degree until he has satisfied the full requirements of the curriculum he may elect.
- (3) In case the character of a student's work in any subject is such as to create doubt as to the quality of that which preceded it elsewhere, the University reserves the right to revoke at any time any credit allowed.

- (4) Credit will not be allowed for more than one-fourth of those courses in which the grade is D.

An applicant may request examination for advanced credit in any subject.

Admission by Examination. Candidates who are not eligible for admission by certificate or by transfer will be admitted by presenting evidence of having passed the examinations of either the College Entrance Examination Board or the New York Regents' Examinations covering work sufficient to meet the entrance requirements.

The University does not give entrance examinations, but accepts certificates of the College Entrance Examination Board and the New York Regents' Examinations.

The certificate of the College Entrance Examination Board, showing a grade of 60 per cent. or higher, will be accepted as satisfying the entrance requirements in a subject. These examinations are held at various points once a year beginning the third Monday in June. Full information regarding these examinations may be obtained from the Secretary of the College Entrance Examination Board, 431 W. 117th Street, New York City.

Credit also will be allowed for examinations conducted by the Regents of the University of the State of New York.

Unclassified Students. Mature students who have had insufficient preparation to pursue any of the four-year curricula may matriculate, with the consent of the Committee on Entrance, for such subjects as they are fitted to take. Such students, however, will be ineligible for degrees.

PHYSICAL EXAMINATIONS

As soon as possible after the opening of the fall semester, as a measure for protecting the health of the student body, all students who enter the undergraduate colleges at College Park are given a physical examination. The examination of the men students is conducted by the College Physician in co-operation with the Military Department. The examination of the women students is conducted by a woman physician especially employed for this purpose in co-operation with the Instructor of Physical Education for Women.

REGULATIONS, GRADES, DEGREES

REGULATION OF STUDIES

Course Numbers. Courses for undergraduates are designated by numbers from 1—99; courses for advanced undergraduates and graduates, by numbers, 100—199, and courses for graduates, by numbers, 200—299.

The letter following the number of a course indicates the semester in which it is offered; thus, course 1f is offered in the first semester; 1s, in the second semester. The letter "y" indicates a full-year course. The

number of hours' credit for each course is indicated by the arabic numeral in parentheses following the title of the course.

Schedule of Courses. The semester schedules of days, hours and rooms are issued as a separate pamphlet at the beginning of each semester.

Definition of Credit Unit. The semester hour, which is the unit of credit in the University, is the equivalent of a subject pursued one period a week for one semester. Two or three periods of laboratory or field work are equivalent to one lecture or recitation period. The student is expected to devote three hours a week in classroom or laboratory or in outside preparation for each credit hour in any course.

Number of Hours. The normal student load is from 15 to 19 semester hours, according to curriculum and year. These variations are shown in the appropriate chapters in Section 11 describing the several divisions of the University. No student may carry either more or less than the prescribed number of hours without specific permission from the Dean of his division.

EXAMINATIONS AND GRADES

Examinations. Examinations at the end of each semester complete the studies pursued to that point.

Grading. The system of grading is uniform in the different departments and divisions of the University.

The following grade symbols are used: A, B, C, D, E, F and I. The first four, A, B, C and D, are passing; E, condition; F, failure; I, incomplete.

Grade "A" denotes superior scholarship; grade "B" good scholarship; grade "C" fair scholarship, and grade "D" poor, but passing scholarship.

A student who receives the grade of "D" in more than one-fourth of the credits required for graduation must take additional courses or repeat courses until he has the required number of credits for a degree, three-fourths of which carry a grade above "D."

A student with a mark of "E" is conditioned. The grade "E" indicates that though the student has not failed in a course, he has not presented sufficient evidence to pass; in the opinion of the instructor his record in the course has been sufficiently good to justify the presumption that he may secure a passing grade by a re-examination or by additional work without repeating the course. The grade "E" cannot be raised to a higher grade than "D."

The mark of "I" (Incomplete) is given only to those students who have a proper excuse for not completing all the requirements of a course. The mark of "I" is not used to signify work of inferior quality. In cases where this grade is given the student must complete the work assigned by the instructor by the end of the first semester in which that subject is again offered, or the mark becomes "F."

Work of grade "D," or of any passing grade, cannot be raised to a higher grade except by repeating the course. A student who repeats a course for which he has received credit for work done at this University, or elsewhere, must meet all the requirements of the course, including regular attendance, laboratory work and examinations. His final grade will be substituted for the grade already recorded, but he will not receive any additional credit for the course.

REPORTS

Written reports of grades are sent by the Registrar to parents or guardians at the close of each semester.

ELIMINATION OF DELINQUENT STUDENTS

The University reserves the right to request at any time the withdrawal of a student who cannot or does not maintain the required standard of scholarship, or whose continuance in the University would be detrimental to his or her health or to the health of others, or whose conduct is not satisfactory to the authorities of the University. *Students of the last class may be asked to withdraw even though no specific charge be made against them.*

DEGREES AND CERTIFICATES

The University confers the following degrees: Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration, Master of Arts, Master of Science, Doctor of Philosophy, Civil Engineer, Mechanical Engineer, Electrical Engineer, Bachelor of Laws, Doctor of Medicine, Doctor of Dental Surgery and Bachelor of Science in Pharmacy.

Students in the two-year and three-year curricula are awarded certificates.

The requirements for graduation vary, according to the character of work in the different colleges and schools. For full information regarding the requirements for graduation in the several colleges consult the appropriate chapters in Section II.

No baccalaureate degree will be awarded to a student who has less than one year of resident work in this University. The last thirty hours of any curriculum leading to a baccalaureate degree must be taken in residence at College Park.

At least three-fourths of the credits required for graduation must be earned with grades of A, B or C.

EXPENSES

MAKE ALL CHECKS PAYABLE TO THE UNIVERSITY OF MARYLAND FOR THE EXACT AMOUNT OF THE SEMESTER CHARGES.

In order to reduce the cost of operation, all fees are due and payable as a part of the student's registration, and all persons must come prepared to pay the full amount of the semester charges. No student will be admitted to classes until such payment has been made.

EXPENSES AT COLLEGE PARK

The following table gives the minimum amounts which must be paid per semester by all regular resident students at College Park:

	First Semester	Second Semester	Total for year
Fixed charges	\$ 42.50	\$ 42.50	\$ 85.00
Library Fee	5.00	-----	5.00
Athletic Fee	15.00	-----	15.00
Reserve Fee	5.00	-----	5.00
Minimum charge to all students	67.50	42.50	110.00
Board	126.00	126.00	252.00
Lodging	38.00	38.00	76.00
Laundry	12.50	13.50	27.00
	\$245.00	\$220.00	\$465.00

In addition to the above regular charges the following special fees will be charged as indicated:

\$5.00 matriculation fee to students registering for the first time.

62.50 per semester to non-resident students.

125.00 per semester to non-resident students taking pre-medical work.

10.00 diploma fee.

5.00 certificate fee

1.00 condition examination fee.

1.00 fee for change in registration after first week.

1.00 fee for failure to file schedule card in Registrar's office within one week after opening of semester.

Late Registration Fee

Students who do not complete their registration and classification on regular registration days will be required to pay \$3.00 extra on the day following the last registration day, and \$2.00 for each additional day thereafter until their registration is completed. The maximum fee is \$9.00. This fee does not apply to students entering for the first time.

Absence Fee

In cases of absence 24 hours before, or 24 hours after classes begin, or close, respectively, for a vacation, a student will be penalized by the payment of a special fee of \$3.00 for each class missed.

Work of grade "D," or of any passing grade, cannot be raised to a higher grade except by repeating the course. A student who repeats a course for which he has received credit for work done at this University, or elsewhere, must meet all the requirements of the course, including regular attendance, laboratory work and examinations. His final grade will be substituted for the grade already recorded, but he will not receive any additional credit for the course.

REPORTS

Written reports of grades are sent by the Registrar to parents or guardians at the close of each semester.

ELIMINATION OF DELINQUENT STUDENTS

The University reserves the right to request at any time the withdrawal of a student who cannot or does not maintain the required standard of scholarship, or whose continuance in the University would be detrimental to his or her health or to the health of others, or whose conduct is not satisfactory to the authorities of the University. *Students of the last class may be asked to withdraw even though no specific charge be made against them.*

DEGREES AND CERTIFICATES

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Students in the two-year and three-year curricula are awarded certificates.

The requirements for graduation vary, according to the character of work in the different colleges and schools. For full information regarding the requirements for graduation in the several colleges consult the appropriate chapters in Section II.

No baccalaureate degree will be awarded to a student who has less than one year of resident work in this University. The last thirty hours of any curriculum leading to a baccalaureate degree must be taken in residence at College Park.

At least three-fourths of the credits required for graduation must be earned with grades of A, B or C.

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In order to reduce the cost of operation, all fees are due and payable as a part of the student's registration, and all persons must come prepared to pay the full amount of the semester charges. No student will be admitted to classes until such payment has been made.

EXPENSES AT COLLEGE PARK

The following table gives the minimum amount of expenses for students at College Park.

	Resident	Non-Resident	Foreign
Library fee	5.00	5.00	5.00
Athletic fee	15.00	15.00	15.00
Total	\$245.00	\$220.00	\$465.00

addition to listed fees

A matriculation fee of \$5.00 is charged to all students registering for the first time.

Non-resident students are charged a fee of \$62.50 per semester.

Non-resident students taking pre-medical work are charged a fee of \$100.00 per semester.

Resident students taking pre-medical work are charged a fee of \$25.00 per semester.

The diploma fee is \$10.00; the certificate fee, \$5.00.

Special Fees. The following fees are charged for the indicated special services:

Condition examination fee	\$1.00
Fee for change in registration after first week	1.00
Fee for failure to register on or before September 27, 1926, or January 31, 1927	2.00
Fee for failure to file schedule card in Registrar's office within one week after opening of semester	1.00
Fees for the courses in chemistry depend upon the amount of breakage and the amount of material used. They are collected at the conclusion of each course.	

Graduate Fees. The fees paid by graduate students are as follows:

Matriculation fee	\$10.00
Per semester credit hour	1.50
Diploma fee	10.00

EXPLANATIONS

The Fixed Charges made to all students are a part of the overhead expenses not provided for by the State, such as laboratory supplies and service, infirmary and physical training costs and other general expense.

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The Board, Lodging and Laundry charge may vary from semester to semester, but every effort will be made to keep expenses as low as possible.

The Library Fee is designed to cover in part the cost of wear and tear on library books.

The Reserve Fee will be returned at the close of the year, less damage charges, if any, except to those students who have occupied rooms without first signing the room register kept by the Dormitory Manager at his office in room 121, Silvester Hall, or who have moved from rooms assigned to them, or have removed articles of furniture, without his approval, in which case the entire fee will be forfeited, and damages or other charges which may be shown on their clearance slips will be made against them.

The Athletic Fee constitutes a fund which is collected from all students in the University at College Park for the maintenance of athletics, and the entire amount is turned over to the Athletic Board for disbursement.

DEFINITION OF RESIDENCE AND NON-RESIDENCE

Students who are minors are considered to be resident students, if at the time of their registration their parents or guardians have been residents of this State or the District of Columbia for at least one year.

Adult students are considered to be resident students if, at the time of their registration, they have been residents of this State for at least one year.

The status of the residence of a student is determined at the time of his first registration in the University, and may not thereafter be changed by him unless his parents or guardians move to and become legal residents of this State.

MISCELLANEOUS INFORMATION

In case of illness requiring a special nurse or special medical attention, the expense must be borne by the student.

Board and lodging may be obtained at boarding houses or in private families, if desired.

Students not rooming in the dormitories may obtain board and laundry at the University at the same rates as those living in the dormitories.

Day students may get lunches at nearby lunch rooms.

The costs of books and supplies and personal needs will vary according to the tastes and habits of the individual student. Books and supplies average about \$40.00 per year.

No diploma will be conferred upon, nor any certificate granted to a student who has not made satisfactory settlement of his account.

DORMITORY RULES AND REGULATIONS

All Freshmen, except those who live at home, are required to live in the dormitories and board at the University dining hall.

All dormitory property in possession of the individual student will be charged against him, and the parent or guardian must assume responsibility for its return without injury other than results from ordinary wear and tear.

All students assigned to dormitories are required to provide themselves with one pair of blankets, two pairs of sheets, four pillow cases, ^{for single bed} six towels, one pillow, one laundry bag, one broom and a waste basket.

Room Reservations. All students who desire to reserve rooms in the dormitories must register their names and selection of rooms with the Dormitory Manager and deposit \$5.00 with the Cashier as a reserve fee. This fee will be deducted from the first semester charges if the student returns; if not, it will be forfeited. Reservations may be made at any time during the closing month of the year by students already in the University, and failure to do so may result in their not being able to obtain rooms upon their return. New students should signify their desire for a room when making application for admittance to the University, accompanying their request with a remittance of \$5.00.

Keys. Students who withdraw from the dormitories, or who leave at the close of the year without surrendering their keys to the Dormitory Manager, will have their room charges continued against them until such time as their keys are turned in. (?)

AUTOMOBILES

No student, while in residence at the College Park branch of the University, whether living in a University dormitory, fraternity house, or boarding house, will be permitted to have an automobile without an authorization by the parent, giving satisfactory reasons why the student should keep a car. A parent desiring to give such authorization will secure from the President an automobile authorization blank form. This form, when filled out by the parent and approved by the President of the University, constitutes the student's authorization and is retained in the University files.

WITHDRAWALS

Students registering for the dormitories and dining hall must continue for the year, as contracts for faculty and other service and for supplies are made on an annual basis, and fees are fixed on the supposition that students will remain for the entire year.

A student desiring to withdraw from the University must secure the written consent of the parent or guardian, to be attached to the withdrawal slip, which must be approved by the Dean and presented to the Registrar at least one week in advance of withdrawal. Charges for full time will be continued against him unless this is done. Withdrawal slips

must bear the approval of the President and the Financial Secretary before being presented to the Cashier for refund.

REFUNDS

For withdrawal within five days, full refund of all fees.

For withdrawal after five days and until November 1, the refund of fees will be pro-rated.

After November 1st, no refund of fees allowed.

In all cases a minimum charge of \$5.00 is made to cover cost of registration.

In all cases charges for board and laundry will be pro-rated. No refund of lodging.

all outstanding checks have been honored by the bank on which they are drawn.

EXPENSES AT BALTIMORE

The fees and expenses for the schools located in Baltimore are:

	MATRICULATION	TUITION		LABORATORY	GRAD- UATION
		RESIDENT	NON- RESIDENT		
Medicine	-----\$10.00 (once only)	\$250.00	\$350.00	\$20.00 yr.	\$10.00
*Dentistry	----- 10.00 (once only)	200.00	250.00	20.00 yr.	10.00
Pharmacy	----- 10.00 (once only)	200.00	250.00	20.00 yr.	10.00
Law (night)	-- 10.00 (once only)	150.00	200.00	----	10.00
(day)	--- 10.00 (once only)	200.00	250.00	----	10.00

Applicants for admission to any of the schools are charged a record investigation fee of \$2.00.

HONORS AND AWARDS

SCHOLARSHIP HONORS AND AWARDS

Chemical Alumnae Scholarship. The Chemical Alumnae of the University of Maryland gives a scholarship to the boy or girl in the State writing the best essay, as a result of the National Prize Essay Contest, of the American Chemical Society.

The Sigma Delta Sorority offers annually a hundred dollars (\$100.00) loan, without interest, to any woman student registered in the University of Maryland and selected by the Scholarship Committee—the said Committee to be composed of the deans of all Colleges in which girls are registered, including the Dean of Women and the Dean of the Graduate School.

Scholarship Honors. Final honors for excellence in scholarship are awarded to one-fifth of the graduating class in each college. *First honors*

* Students are required to pay, once only, a dissecting fee of \$15.00.

NOTE—Late registration fee, \$5.00.

are awarded to the upper half of this group; *second honors* to the lower half.

The Goddard Medal. The James Douglas Goddard Memorial Medal is awarded annually to the man from Prince George's County making the highest average in his studies and who at the same time embodies the most manly attributes. The medal is given by Mrs. Annie K. Goddard James, of Washington, D. C.

Sigma Phi Sigma Medal. The Delta Chapter of Sigma Phi Sigma Fraternity offers annually a gold medal to that freshman who makes the highest scholastic average during the first semester.

Alpha Zeta Medal. The Honorary Agricultural Fraternity of Alpha Zeta awards annually a medal to the agricultural student in the freshman class who attains the highest average record in academic work. The mere presentation of the medal does not elect the student to the fraternity, but simply indicates recognition of high scholarship.

Dinah Berman Memorial Medal. The Dinah Berman Memorial Medal is awarded annually to that sophomore who has attained the highest scholastic average of his class in the College of Engineering. The medal is given by Benjamin Berman.

Interfraternity Scholastic Trophy. The Delta Mu Fraternity has presented to the University a silver trophy which is awarded annually to that fraternity which had the highest average in scholarship for the preceding scholastic year. It becomes the permanent property of the fraternity which wins it three times.

Public Speaking Awards

President's Cup for Debate. An annual debate is held each year in January between the Poe and New Mercer Literary Societies for the "President's Cup," given by Dr. H. J. Patterson.

Alumni Medal for Debate. A gold medal is awarded by the Alumni Association each year to the best debater in the University, the test being a debate between picked teams from the two literary societies.

Public Speaking Prize. A prize of \$25.00 in gold is given annually by Mr. W. D. Porter, of Hyattsville, Maryland, to be awarded to that student in the University who makes most improvement in the ability "to stand and think and to so express his thoughts while standing as to transmit them to his fellowmen accurately and in a common-sense way."

The Oratorical Association of Maryland Colleges, consisting of Washington College, Western Maryland College, St. John's College and University of Maryland, offers each year gold medals for first and second places in an oratorical contest that is held between representatives of the four institutions.

Other Medals and Prizes

Athletics. The class of 1908 offers annually to "the man who typifies the best in college athletics" a gold medal. The medal is given in honor

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draw from the U. S. Treasury or more. The amount of the refund will be based on the costs only, since the overhead expense is not affected by the student.

No refunds will be made without the written consent of the student's parent or guardian, except to students who pay their own expenses.

No student will be given cash for any part of his or her refund until all outstanding checks have been honored by the bank on which they are drawn.

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	MATRICULATION	TUITION		LABORATORY	GRAD- UATION
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Other Medals and Prizes

Athletics. The class of 1908 offers annually to "the man who typifies the best in college athletics" a gold medal. The medal is given in honor

of former President R. W. Silvester, and is known as "The Silvester Medal for Excellence in Athletics."

Military Medal. The class of 1899 offers each year a gold medal to the member of the battalion who proves himself the best-drilled soldier.

Company Sword. The class of 1897 awards annually to the captain of the best-drilled company of the University battalion a silver-mounted sword.

Citizenship Prize. A gold medal is presented annually by H. C. Byrd, a graduate of the class of 1908, to the member of the senior class who, during his collegiate career, has nearest typified the model citizen, and who has done most for the general advancement of the interests of the University.

Citizenship Prize for Women. The Citizenship Prize is offered by Mrs. Albert F. Woods to the woman member of the senior class who, during her collegiate career, has most nearly typified the model citizen, and has done most for the general advancement of the interest of the University.

Baltimore Schools

Description of the honors and awards in the Baltimore Schools will be found in the appropriate chapters of Section II.

STUDENT ACTIVITIES

The following description of student activities covers the student activities of the undergraduate divisions at College Park. The description of student activities in the Baltimore divisions is included in the appropriate chapters in Section II.

GOVERNMENT

Regulation of Student Activities. The association of students in organized bodies, for the purpose of carrying on voluntary student activities in orderly and productive ways, is recognized and encouraged. All organized student activities, except those which are controlled by a special board or faculty committee, are under the supervision of the Committee on Student Affairs, subject to the approval of the President. Such organizations are formed only with the consent of the Committee on Student Affairs and the approval of the President. Without such consent and approval no student organization which in any way represents the University before the public, or which purports to be a University organization or organization of University students, may use the name of the University in connection with its own name, or in connection with its members as students.

The "Students' Handbook," issued annually and distributed to the students in the fall, contains full information in regard to student activities as well as in regard to academic regulations. Some of the more important items are given here.

Eligibility to Represent the University. Only students in good standing are eligible to represent the University in extra-curricular contests. No student while on probation may represent the University in such events as athletic contests, glee club concerts, dramatic performances and debates.

Discipline. In the government of the University, the President and faculty rely chiefly upon the sense of responsibility of the students. The student who pursues his studies diligently, attends classes regularly, lives honorably and maintains good behavior meets this responsibility. In the interest of the general welfare of the University, those who fail to maintain these standards are eliminated. Students are under the direct supervision of the University only when on the campus, but they are responsible to the University for their conduct wherever they may be.

Student Government. The General Students' Assembly consists of all the students and is the instrument for student government. It operates under a constitution. Its officers are a President, Vice-President and Secretary and an Executive Council representative of the several college classes.

The Students' Assembly meets every second Wednesday at 11:20 o'clock in the Auditorium for the transaction of business which concerns the whole student body. On alternate Wednesdays a program is arranged by the officers with the aid of the Department of Public Speaking. The Students' Executive Council, with the aid of the Committee on Student Affairs, which acts as an advisory board to the Council, performs the executive duties incident to managing student affairs. The honor principle, which is an integral part of the system of student government, presupposes that the student will apply this principle in all his dealings—with fellow-students, the faculty and the University.

Women Students' Government Association is an organization comprising all the women students, for the management of all affairs concerning the women students exclusively. It operates under a constitution. Its officers are the same as those of the General Students' Assembly. Its Executive Council has the advisory co-operation of the Dean of Women.

SOCIETIES

Honorary Fraternities. There are five honorary fraternities in the University at College Park organized to uphold scholastic and cultural standards in their respective fields. These are: Phi Kappa Phi, a national honorary fraternity open to honor students in all branches of learning; Alpha Zeta, a national honorary agricultural fraternity; Phi Mu, a local honorary engineering fraternity; Phi Chi Alpha, a local honorary chemical fraternity; Sigma Delta Pi, a local honorary Spanish fraternity, and Women's Senior Honorary Society.

Fraternities and Sororities. Six national fraternities and one national sorority have chapters at College Park. These are: Kappa Alpha, Sigma Nu, Sigma Phi Sigma, Phi Alpha, Phi Sigma Kappa, Delta Sigma Phi

(fraternities), and Alpha Omicron Pi (sorority). In addition there are four local fraternities and two local sororities: Nu Sigma Omicron, Delta Psi Omega, Delta Mu, Sigma Tau Omega (fraternity), and Sigma Delta, Kappa Xi (sororities).

The relations of these organizations to each other and to the University are governed by the regulations of the Interfraternity Council under the general supervision of the Committee on Student Affairs. The council exerts a favorable influence upon standards of scholarship and conduct.

Miscellaneous Clubs and Societies. Many clubs and societies, with literary, scientific, social and other special objectives, are maintained in the University. Some of these are purely student organizations; others are conducted jointly by students and members of the faculty. The list is as follows: Agricultural Club, Agronomy Society, Animal Husbandry Society, Authorship Club, Co-Ed Speakers' Club, Economics Club, Engineering Society, Home Economics Club, Horticultural Society, Latin-American Club, Le Cercle Francais, Live Stock Club, Maryland Chemical Club, New Mercer Literary Society, Poe Literary Society, Public Speaking Club; Baltimore City Club, Chess and Checker Club; District of Columbia Club, Gamma Alpha Pi Fraternity (Masonic), Keystone Club, Masque and Bauble Club, Men's Rifle Club, Old Dominion Club, Rossbourg Club (formal dances), Scabbard and Blade, Women's Rifle Club, Women's Athletic Association.

Student Grange. The University is fortunate in having a chapter of the time-honored national fraternity known as "The Grange." With the exception of two faculty advisers, the Student Grange membership is made up entirely from the student body. New members are elected by ballot when they have proven their fitness for the organization.

The general purposes of the Student Grange are to furnish a means through which students keep in touch with State and national problems of agricultural, economic or general educational nature; to gain experience in putting into practice any parliamentary rules; to learn the meaning of leadership and to learn how to assume leadership that aids in the ultimate task of serving in one's community.

MUSICAL ORGANIZATIONS

Four musical organizations are maintained in connection with the Department of Music.

Chorus. Membership in the Chorus is open to all students, and to persons residing in the community. Oratorios and standard part-songs are studied. Rehearsals are held weekly. The Chorus presents an annual festival of music in May.

Glee Club. A Glee Club, of limited membership, is recruited from the best vocal talent among the men of the University. Admission is gained through tests, or "try-outs," conducted at the beginning of the school year. The club holds two rehearsals a week. Public concerts are given.

Opera Club. The "Maryland Opera Club" was established in 1923 and

gave its first performance in the spring of 1924. Its object is to foster and promote music in connection with dramatic art, and to develop and direct musical talent of students in the University. One or more public performances will be given each year.

Military Band. This organization, of limited membership, is a part of the military organization of the University, and is subject to the restrictions and discipline of the Department of Military Science and Tactics, but the direction of its work is under the Department of Music.

RELIGIOUS INFLUENCES

Religious Work Council. The Religious Work Council, comprising the President of the University, acting as chairman, all Student Pastors officially appointed by the Churches for work with the students of their respective faiths, and representatives of the religious organizations of the students, focalizes, reviews and stimulates the religious thought and activity of the student body. This Council has an executive secretary with an office in the Agricultural Building, who is daily at the service of the students and the churches.

Every assembly of the University is opened with religious exercises conducted by one of the Student Pastors or other clergymen secured for the purpose.

While there is no interference with any one's religion, religion itself is recognized, and every possible provision made that the student may keep in contact with the church of his choice.

The Christian Associations. The Young Men's Christian Association and the Young Woman's Christian Association serve primarily as agencies for co-ordinating and directing the religious activities of the men and women students respectively. In addition, they perform other important functions, such as welcoming new students, assisting in obtaining employment for worthy students and promoting morale and good fellowship in the student body. The two Associations, in co-operation with the committee on student affairs, publish and distribute free of charge the Students' Handbook to each student at the beginning of the scholastic year. This handbook contains detailed information in regard to registration, academic regulations and student activities. The Y. M. C. A. maintains a secretary, who divides his time between the College Park and Baltimore branches of the University.

The Program Committees of the two Associations provide two organized programs of religious study running through the college year, the Bible Class and the Discussion Group.

The Bible Class meets every Sunday morning for the systematic study of Biblical history and literature.

The Discussion Group, organized and conducted by the students, meets Sunday evening for the discussion of important religious, social and political questions, both national and international.

The Episcopal Club. The Episcopal Club is an organization of the Episcopal students (both men and women) and their friends, banded together for mutual fellowship and Christian service. It is a duly recognized unit of the National Student Council of the Protestant Episcopal Church.

STUDENT PUBLICATIONS

The Diamondback. A weekly, five-column newspaper, the Diamondback, is published by the students. This publication summarizes the University news, and provides a medium for discussion of matters of interest to the student body and the faculty.

The Reveille is the student annual published by the junior class. It is a mirror of student activities and opinions.

ALUMNI ORGANIZATION

The University has no general alumni association. The alumni are divided into several organizations, which elect representatives to the Alumni Council, an incorporated body which manages all general alumni affairs.

The different alumni units represent the Medical School, the Pharmacy School, the Dental School, the Law School, the School of Nursing, the School of Business Administration. One unit represents the group of colleges at College Park.

The Alumni Council is made up of elected representatives from the several units, with a membership of twenty-four. Each alumni unit in Baltimore elects two representatives to the Council; the alumni unit representing the College Park group of colleges elects twelve representatives. W. P. Cole, Jr., of Towson, Md., a graduate of the Engineering College and also a graduate of the Law School, is President of the Alumni Council.

SECTION II ADMINISTRATIVE DIVISIONS

COLLEGE OF AGRICULTURE

HARRY J. PATTERSON, *Dean.*

Agriculture is the primary pursuit of the human race, and permanent prosperity is in direct proportion to the producing capacity of the land. Land-Grant Colleges were founded to foster the teaching of scientific agriculture. The primary aim of the College of Agriculture of the University of Maryland is to teach the best and most practical methods of farm production, the economics of marketing and distribution, and methods of improving the economic and social position of the farmer. Agriculture is constantly changing; no cropping system can be worked out once and for all time; new as well as old pests and diseases must be constantly combated; better feeding and breeding of live stock and more efficient marketing methods must be substituted for the old and inefficient methods if agriculture is to maintain its importance with the other industries. Above all, agriculture must be made profitable to the tiller of the soil and must be established as a paying business for those who engage in it as well as for town and city dwellers.

The curricula of the College of Agriculture are planned to give the student thorough and practical instruction in agriculture and related sciences, and at the same time afford an opportunity to specialize along the lines in which he is particularly interested. Likewise, instruction is given which will prepare students for teaching positions in agriculture, for governmental investigation and experimental work, for positions as county agents, farm bureau leaders, farm supervisors, as well as for farming.

Departments

The College of Agriculture includes the following departments: Agricultural Economics; Agronomy (including Forage Crops, Grain Crops, Genetics); Animal Husbandry; Bacteriology; Botany; Dairy Husbandry; Entomology and Bee Culture; Farm Forestry; Farm Management; Farm Mechanics; Horticulture (including Pomology, Vegetable Gardening, Landscape Gardening and Floriculture); Plant Pathology; Plant Physiology and Bio-chemistry; Poultry Husbandry; Soils; Veterinary Medicine.

Admission

The requirements for admission are the same as for other colleges and schools. See Section I, "Entrance."

Requirements for Graduation

One hundred and thirty-four semester hours are required for graduation. The prescribed work is the same for all freshmen and sophomores (except for those specializing in Floriculture, Landscape Gardening and Entomology) ; thereafter the work required varies according to the major and minor subjects pursued by the students.

Major Subject

Before the beginning of the third year the student chooses a department in which he will do his major work. After choosing his major subject some member of the department (appointed by the head of the department) will become the student's adviser in the selection of courses. The adviser may designate a minor subject if he deems it necessary.

The minimum requirements for a major in one department are fourteen semester hours, and the maximum hours permitted to count toward a degree are thirty-five semester hours.

Farm Practice

Students without farm experience do not, as a rule, secure full benefit from any of the agricultural courses. A committee has been appointed for the purpose of assisting all students coming to the college without farm training to obtain a fair knowledge of actual farm practice. Some time during the year the committee will examine all members of the freshman class to determine whether or not their experience satisfies the farm practice requirements. Those not able to pass this examination will be required to spend at least three months on a farm designated or approved by the committee. If the student has had no experience whatsoever before entering college, he may be required to spend six to nine months on a farm. The committee reserves the right also to call on all students so placed for written reports showing the experience gained while on these farms.

Fellowships

A limited number of graduate fellowships which carry remuneration of \$500 to \$1,000 yearly are available to graduate students. Students who hold these fellowships spend a portion of their time assisting in classes and laboratories. The rest of the time is used for original investigation or assigned study. (See Graduate School.)

CURRICULA IN AGRICULTURE

All students registered for agriculture take the same work in the freshman and sophomore years, except those registered for landscape

gardening, floriculture and entomology. At the end of the sophomore year they may elect to specialize along the lines in which they are particularly interested.

		<i>Semester</i>	
<i>Freshman Year</i>		<i>I</i>	<i>II</i>
Gen'l Chem. and Qual. Analysis (Chem. 1) -----		4	4
*General Zoology (Zool. 1) -----		4	--
*General Botany (Bot. 1) -----		--	4
Composition and Rhetoric (Eng. 1) -----		3	3
Public Speaking (P. S. 1 and 2) -----		1	1
Basic R. O. T. C. (M. I. 1) -----		1	1
(Elect one of the following groups)			
Group A—			
General Animal Husbandry (A. H. 1) -----		3	--
Principles of Vegetable Culture (Hort. 11) -----		--	3
Group B—			
Language -----		3	3
Group C—			
Mathematics -----		3	3
Group D—			
Elements of Social Science (Soc. Sci. 1) -----		3	3
<i>Sophomore Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
Agricultural Chemistry (Chem. 16) -----		3	3
Geology (Geol. 1) -----		3	--
Principles of Soil Management (Soils 1) -----		--	3
Elementary Pomology (Hort. 1) -----		3	--
Field Crop Production (Agron. 1-2) -----		3	3
Feeds and Feeding (A. H. 2) -----		3	--
Farm Dairying (D. H. 1) -----		--	3
Principles of Economics (Econ. 5 A) -----		--	3
Basic R. O. T. C. (M. I. 2) -----		2	2

AGRONOMY

The curriculum in agronomy aims to give the student the fundamental principles of crop production. Special attempt is made to adapt the work to the young man who wishes to apply scientific principles of field crop culture and improvement on the farm. At the same time enough freedom is given the student in the way of electives so that he can register for subjects which might go along with the growing of crops on his particular farm. A student graduating from the course in agronomy should be well fitted for general farming, investigational work in the State or Federal Experiment Stations, or county agent work.

* Offered each semester.

The Agronomy Department has a large, well-equipped laboratory in the new Agricultural Building and a greenhouse for student use, besides free access to the Experiment Station fields and equipment.

<i>Junior Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Genetics (Agron. 101)-----	3	--
Grain and Hay Judging (Agron. 4)-----	1	--
Grading Farm Crops (Agron. 3)-----	--	2
Crop Varieties (Agron. 103)-----	--	2
General Bacteriology (Bact. 1)-----	3	--
Soil Micro-Biology (Soils 7)-----	--	3
Expository Writing (Eng. 5-6)-----	2	2
Plant Physiology (Plt. Phy. 1)-----	4	--
Agricultural Economics (A. E. 1)-----	3	--
Electives -----	2	8

<i>Senior Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Crop Breeding (Agron. 103)-----	2	--
Advanced Genetics (Agron. 102)-----	3	--
Methods of Crop Investigation (Agron. 121)-----	--	2
Cropping Systems and Methods (Agron. 120)-----	--	2
Soil Survey and Classification (Soils 5)-----	3	--
Farm Drainage (F. Mech. 107)-----	--	2
Farm Machinery (F. Mech. 101)-----	3	--
Farm Forestry (For. 1)-----	--	3
Farm Management (F. M. 2)-----	4	--
Seminar (Agron. 129) -----	1	1
Electives -----	1	7

AGRICULTURAL EDUCATION

The objectives of the curriculum in Agricultural Education are the teaching of secondary vocational agriculture, the work of the county agents, and allied lines of the rural educational service.

(For special requirements and curriculum see page 94, College of Education.)

ANIMAL HUSBANDRY

The courses in animal husbandry have been developed with the idea of teaching the essential principles underlying the breeding, feeding, development and management of livestock, together with the economics of the livestock industry.

The curriculum in animal husbandry is so planned as to allow plenty of latitude in the selection of courses outside of the department, thus giving the student a broad, fundamental training and fitting him to become the owner or superintendent of general or special livestock farms.

Opportunity for specialization is offered to those who may desire to become instructors or investigators in the field of animal husbandry.

Some livestock are maintained at the university. In addition, there are available, for use in instruction, the herds of livestock owned by the Federal Bureau of Animal Industry at Beltsville, Maryland. Through the courtesy of Maryland breeders, some private herds are also available for inspection and instruction.

<i>Junior Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Expository Writing (Eng. 5-6)-----	2	2
General Bacteriology (Bact. 1-2)-----	3	3
Agricultural Economics (A. E. 1)-----	3	--
Principles of Breeding (A. H. 3)-----	--	3
Swine Production (A. H. 4)-----	--	3
Horse and Mule Production (A. H. 6)-----	--	2
Anatomy Physiology (V. M. 1)-----	3	--
Genetics (Agron. 10)-----	3	--
Electives -----	3	4

<i>Senior Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Farm Management (F. M. 2)-----	4	--
Sheep Production (A. H. 7)-----	--	3
Farm Machinery (F. Mech. 101)-----	3	--
Animal Hygiene (V. M. 102)-----	--	3
Meat and Meat Products (A. H. 8)-----	2	--
Farm Drainage (F. Mech. 107)-----	--	2
Physiological Chemistry (Chem. 119)-----	4	--
Seminar (A. H. 112)-----	1	1
Electives -----	3	8

BACTERIOLOGY

The present organization of this department was brought about with two main purposes in view. The first is to give all the students of the University an opportunity to obtain a general knowledge of the subject. This is of prime importance, as bacteriology is a basic subject and is of as much fundamental importance as physics or chemistry. The second purpose, and the one for which this curriculum was designed, is to fit students for positions along bacteriological lines. This includes dairy bacteriologists and inspectors; soils bacteriologists; federal, state and

municipal bacteriologists for public health positions; research positions; commercial positions, etc. At present, the demand for individuals qualified for this work is much greater than the supply, and with the development of the field this condition is bound to exist for some time.

<i>Sophomore Year</i>		
	<i>Semester I</i>	<i>Semester II</i>
Agricultural Chemistry (Chem. 16)-----	3	3
*Physics (Phys. 103) or Principles of Economics (Econ. 105-A)-----	---	3
Language-----	3	3
Feeds and Feeding (A. H. 2)-----	3	---
Dairying (D. H. 1)-----	---	3
Geology (Geol. 1)-----	3	---
Electives-----	3	4
Basic R. O. T. C. (M. I. 102)-----	2	2
<i>Junior Year</i>		
	<i>Semester I</i>	<i>Semester II</i>
General Bacteriology (Bact. 1-2)-----	3	3
Expository Writing (Eng. 5-6)-----	2	2
Language-----	3	3
Agricultural Economics (A. E. 1)-----	3	---
Market Milk (D. H. 106)-----	4	---
Electives-----	2	7
<i>Senior Year</i>		
	<i>Semester I</i>	<i>Semester II</i>
Dairy Bact. (Bact. 101)-----	2-5	2-5
Advanced Bact. (Bact. 102)-----	3	3
Physiological Chemistry (Chem. 119)-----	4	---
Seminar (Bact. 109)-----	1	1
Electives-----	4-7	8-11

* Only those students who are excused from Physics will take Economics.

BOTANY

The courses listed for the curriculum in botany make a kind of skeleton of essentials to which the student adds the individual requirements to make a complete four-year course. No electives are permitted in the freshman year, but thereafter the leeway increases to the senior year, where half of the courses are elected or selected to fit the individual needs of the student. This leeway is thought to be important because all students do not have the same ends in view. They may wish to prepare to be teachers, investigators in state or government experiment stations, inspectors in the field, or for any other vocations which botanists follow.

The curriculum as outlined lays the foundation for graduate work leading to higher degrees.

<i>Freshman Year</i>		
	<i>Semester I</i>	<i>Semester II</i>
General Chemistry and Qualitative Analysis (Chem. 1)-----	4	4
General Botany (Bot. 2-3)-----	4	4
Composition and Rhetoric (Eng. 1)-----	3	3
Public Speaking (P. S. 1-2)-----	1	1
Modern Language (French or German)-----	4	4
Basic R. O. T. C. (M. I. 1)-----	1	1
	---	---
	17	17

<i>Sophomore Year</i>		
	<i>Semester I</i>	<i>Semester II</i>
Organic Chemistry (Chem. 10)-----	4	---
Expository Writing (Eng. 5-6)-----	2	2
Mathematics (Math. 1-2)-----	3	3
Zoology (Zool. 1)-----	---	4
Modern Language-----	3	3
Mycology (Bot. 5)-----	---	3
Basic R. O. T. C. (M. I. 2)-----	2	2
Elective-----	3	---
	---	---
	17	17

<i>Junior Year</i>		
	<i>Semester I</i>	<i>Semester II</i>
Physics (Phys. 1)-----	4	4
Plant Pathology (Plt. Path. 1)-----	3	---
Plant Physiology (Plt. Phy. 1)-----	4	---
Plant Ecology (Plt. Phy. 2)-----	---	3
Systemtic Botany (Bot. 4)-----	---	2
Genetics (Agron. 101)-----	3	---
Elective-----	3	8
	---	---
	17	17

<i>Senior Year</i>		
	<i>Semester I</i>	<i>Semester II</i>
Group A—		
(The Morphology group)		
Plant Anatomy (Bot. 101)-----	3	---
Methods in Plant Histology (Bot. 102)-----	---	3
General Bacteriology (Bact. 1-2)-----	3	3
Advanced Mycology (Bot. 104)-----	3	---
Advanced Taxonomy (Bot. 103)-----	---	3
Elective-----	8	8
	---	---
	17	17

Group B—

(The Physiology group)

Advanced Plant Physiology (Plt. Phy. 101)_____	2	2
Plant Anatomy (Bot. 101)_____	3	—
General Bacteriology (Bact. 1-2)_____	3	3
Elective _____	7	10
	—	—
	17	17

Group C—

(The Pathology group)

Disease of Fruits (Plt. Path. 101)_____	4	—
Diseases of Garden and Field Crops (Plt. Path. 102)_____	—	4
Plant Anatomy (Bot. 101)_____	3	—
Methods in Plant Histology (Bot. 102)_____	—	3
Advanced Mycology _____	3	—
Advanced Taxonomy _____	—	3
*General Bacteriology (Bact. 1 and 2)_____	3	3
Elective _____	4	4
	—	—
	17	17

* If possible Bacteriology will be taken in Junior year.

DAIRY AND ANIMAL HUSBANDRY GROUP

Dairy Husbandry

The Department of Dairy Husbandry offers courses in two major lines, namely, dairy production and dairy manufacture. The curriculum in each of these lines is so arranged as to give to the student an intimate knowledge of the science and facility in the art of dairy husbandry practices. The dairy production option is so organized as to meet the specific requirements of the students who are especially interested in the care, feeding, breeding, management and improvement of dairy cattle and in the production and sale of market milk.

The option in Dairy Manufactures is planned to meet the particular demands of students who are especially interested in the processing and distribution of milk, dairy plant operation and in the manufacture and sale of butter, cheese, ice-cream and other milk products.

The dairy herd and the dairy manufacture and plant laboratories are available to students for instruction and for research. Excellent opportunity is, therefore, afforded to both advanced undergraduate and graduate students for original investigation and research. Graduates in the courses in dairy husbandry should be well qualified to become managers of dairy farms, teachers, investigators in the State and Federal Agricultural Experiment Stations, or to enter the field of commercial dairying.

DAIRY HUSBANDRY

Dairy Manufacture

	Semester	
	I	II
<i>Junior Year</i>		
Expository Writing (Eng. 5-6)_____	2	2
Agricultural Economics (A. E. 1)_____	3	—
General Bacteriology (Bact. 1)_____	3	—
Accounting (Econ. 120)_____	3	3
Dairy Chemistry (Chem. 121)_____	—	4
Dairy Manufacture (D. H. 4) or_____	3	3
Market Milk (D. H. 5)_____	4	—
Electives _____	2-3	5-8

	Semester	
	I	II
<i>Senior Year</i>		
Market Milk (D. H. 5) or_____	4	—
Dairy Manufacture (D. H. 4)_____	3	3
Dairy Bacteriology (Bact. 101)_____	3	—
Dairy Plant Technique (D. H. 7)_____	—	2
Marketing of Farm Products (A. E. 2)_____	—	3
Co-operation in Agriculture (A. E. 3)_____	3	—
Seminar _____	1	1
Electives _____	6-7	8-11

Dairy Production

	Semester	
	I	II
<i>Junior Year</i>		
Expository Writing (Eng. 5-6)_____	2	2
Agricultural Economics (A. E. 1)_____	3	—
General Bacteriology (Bact. 1)_____	3	—
Dairy Production (D. H. 2)_____	3	—
Principles of Breeding (A. H. 3)_____	—	3
Advanced Dairy Cattle Judging (D. H. 3)_____	—	1
Genetics (Agron. 110)_____	3	—
Farm Drainage (F. Mech. 107)_____	—	2
Electives _____	3	9

	Semester	
	I	II
<i>Senior Year</i>		
Market Milk (D. H. 5)_____	4	—
Dairy Bacteriology (Bact. 101)_____	3	—
Animal Hygiene (V. M. 101)_____	—	3
Dairy Plant Technique (D. H. 7)_____	—	2
Farm Management (F. M. 2)_____	4	—
Seminar (D. H. 102)_____	1	1
Electives _____	5	11

ENTOMOLOGY

This department is concerned with the teaching of entomology to all agricultural students as a basis for future work in economic entomology and in the preparation of technically trained entomologists.

The success of the farmer and particularly the fruit grower is in a large measure dependent upon his knowledge of the methods of preventing or combating the pests that menace his crops each year. Successful methods of control are emphasized in the economic courses.

There is an ever-increasing demand for trained entomologists. The entomological work of the Experiment Station, the Extension Service, the College of Agriculture and the office of the State Entomologist being in one administrative unit, enables the student in this department to avail himself of the many advantages accruing therefrom. Advanced students have special advantages in that they may be assigned to work on station projects already under way.

<i>Freshman Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
General Chemistry and Qualitative Analysis (Chem. 1)-----		4	4
General Zoology (Zool. 1)-----		4	--
General Botany (Bot. 1)-----		--	4
General Entomology (Ent. 1)-----		--	3
Composition and Rhetoric (Eng. 1)-----		3	3
French (1) or German (1)-----		4	4
Basic R. O. T. C. (M. I. 1)-----		1	1
<i>Sophomore Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
Physics (Phys. 1)-----		4	4
Organic Chemistry (Chem. 10)-----		4	4
Expository Writing (Eng. 5-6)-----		2	2
French (2) or German (2)-----		3	3
Insect Morphology (Ent. 2)-----		3	--
Systematic Entomology (Ent. 3)-----		--	2
Basic R. O. T. C. (M. I. 2)-----		2	2
<i>Junior Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
Economic Entomology (Ent. 101)-----		3	3
Economic Entomology (Ent. 102)-----		2	2
Economic Zoology (Zool. 4)-----		--	1
General Bacteriology (Bact. 1-2)-----		3	3
Electives-----		10	9

Senior Year

	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Special Group of Insect Pests (Ent. 104)-----	4	4
Thesis (Ent. 4)-----	2	2
Seminar (Ent. 103)-----	1	1
Electives-----	5-7	5-7

Electives in Botany, particularly Plant Physiology and Plant Pathology, are urged as especially desirable for most students specializing in entomology.

FARM MANAGEMENT AND AGRICULTURAL ECONOMICS

In this department are grouped courses in farm management and agricultural economics.

Farm management has been defined as the business of the individual farmer to organize his business so as to produce the greatest continuous profit. This can be done, however, only when the organization is in accordance with the broader principles of agricultural economics. It requires not only knowledge of many factors involved in the production of crops and animals, but also administrative ability to co-ordinate them into the most efficient farm organization. Farming is a business and as such demands for its successful conduct the use of business methods. As a prerequisite to the technical farm management course there is offered a course in farm accounting. This course is not elaborate, but is designed to meet the need for a simple yet accurate system of farm business records.

The aim of the farm management course is to assist the student to perceive the just relationship of the several factors of production and disposition as applicable to local conditions and to develop in him executive and administrative capacity.

Agricultural economics considers the fundamental principles underlying production, distribution and consumption, more especially as they bear upon agricultural conditions. Land, labor and capital are considered in their relationship to agriculture.

The farmer's work does not end with the production of crops or animal products. More and more it is evident that economical distribution is as important a factor in farming as is economical production.

Students well trained in farm management and agricultural economics are in demand for county agent work, farm bureau work, experiment station or United States Government investigation and college or secondary school teaching.

<i>Junior Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Agricultural Economics (A. E. 1)-----	3	--
Marketing of Farm Products (A. E. 2)-----	--	3
Farm Accounting (F. M. 1)-----	--	3
Business Law (Econ. 118)-----	3	3
Grading Farm Crops (Agron. 3)-----	--	2
Business Organization (Econ. 115)-----	3	--
Agricultural Statistics (Agron. 122-123)-----	2	2
Expository Writing (Eng. 5-6)-----	2	2
Electives-----	6	4

<i>Senior Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Co-operation in Agriculture (A. E. 3)-----	3	--
Transportation of Farm Products (A. E. 4)-----	--	3
Seminar in Marketing (A. E. 105)-----	1-3	--
Seminar (A. E. 106)-----	--	1-3
Farm Management (F. M. 2)-----	4	--
Farm Machinery (F. Mech. 101)-----	3	--
Corporation Finance (Econ. 116)-----	--	3
Rural Sociology and Educational Leadership (Ed. 122)-----	--	3
Public Finance (Econ. 111)-----	--	3
Electives-----	5-7	4-6

FARM MECHANICS

The Department of Farm Mechanics is organized to offer students of agriculture training in those branches of agriculture which are based upon engineering principles. These subjects may be grouped under three heads: farm machinery, farm buildings, and farm drainage.

The modern tendency in farming is to replace hand labor, requiring the use of many men, by large machines which do the work of many men yet require only one man for their operation. In many cases horses are being replaced by tractors to supply the motive force for these machines. Trucks, automobiles and stationary engines are found on almost every farm. It is highly advisable that the student of any branch of agriculture have a working knowledge of the construction and adjustments of these machines.

About one-sixth of the total value of farms is invested in the buildings. The study of the design of the various buildings, from the standpoint of convenience, economy and appearance, is, therefore, important.

The study of drainage includes the principles of tile drainage, the layout and construction of tile drain systems, the use of open ditches, and a study of the Maryland drainage laws.

GENERAL AGRICULTURE

Those who do not care to specialize in any particular phase of agriculture will pursue the following curriculum:

<i>Junior Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Diseases of Plants (Plt. Path. 1)-----	3	--
Plant Physiology (Plt. Phy. 1)-----	4	--
General Bacteriology (Bact. 1)-----	3	--
Expository Writing (Eng. 5-6)-----	2	2
Poultry (P. H. 101)-----	--	3
Genetics (Agron. 101)-----	3	--
Farm Accounting (F. M. 1)-----	--	3
Principles of Breeding (A. H. 3)-----	--	3
Agricultural Economics (A. E. 1)-----	3	--
Electives-----	--	6

<i>Senior Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Farm Management (F. M. 2)-----	4	--
Farm Machinery (F. Mech. 101)-----	3	--
Farm Dairying (D. H. 1)-----	3	--
Gas Engines, Tractor and Automobiles (F. Mech. 102)-----	--	4
Cropping Systems and Methods (Agron. 120)-----	--	2
Farm Drainage (F. Mech. 107)-----	--	2
Farm Forestry (Forestry 1)-----	--	3
Electives-----	7	6

HORTICULTURE

There are several reasons why the State of Maryland should be pre-eminent in the different lines of horticulture and offers such excellent opportunities for horticultural enterprises. A few of the more evident ones are the wide variation in soil and climate from the Eastern Shore to the mountainous counties of Allegany and Garrett in the west, the nearness to all of the large Eastern markets, and the large number of railroads, interurban lines and waterways, all of which combine to make marketing easy and comparatively cheap.

The Department of Horticulture offers four major lines of work, namely: Pomology, olericulture, floriculture and landscape gardening. Students wishing to specialize in horticulture can arrange to take either a general course during the four years, or enough work is offered in each division to allow students to specialize during the last two years in any of the four divisions. The courses have been planned to cover such subject matter that upon their completion students should be fitted either to engage in commercial work, county agent work, or teaching and investigational work in the State and Federal institutions.

The department has at its disposal about twenty acres of ground devoted to vegetable gardening, eighteen acres of orchards, small fruits and vineyards, and twelve greenhouses, in which flowers and forcing crops are grown. Members of the teaching staff are likewise members of the experiment station staff, and thus students have an opportunity to become acquainted with the research which the department is carrying on. Excellent opportunity for investigating new problems is afforded to advanced undergraduates and to graduate students.

Students who intend to specialize in pomology or olericulture are required to take the same subjects which other agricultural students take during the first two years. Students who specialize in floriculture or landscape gardening, however, will take a slightly different curricula. It is felt that such students require certain special courses, which it is unnecessary to require of all agricultural students. The curricula follow:

Pomology

	Semester	
	I	II
<i>Junior Year</i>		
Systematic Pomology (Hort. 2)-----	3	--
Small Fruit Culture (Hort. 4)-----	--	2
Fruit and Vegetable Judging (Hort. 5)-----	2	--
Expository Writing (Eng. 5-6)-----	2	2
Plant Physiology (Plt. Phy. 1)-----	4	--
General Floriculture (Hort. 21)-----	2	--
Diseases of Plants (Plt. Path. 1)-----	3	--
General Entomology (Ent. 1)-----	--	3
Genetics (Agron. 101)-----	3	--
Electives -----	--	10

	Semester	
	I	II
<i>Senior Year</i>		
Commercial Fruit Growing (Hort. 101)-----	3	--
Economic Fruits of the World (Hort. 102)-----	--	2
Horticultural Seminar (Hort. 43)-----	1	1
General Landscape Gardening (Hort. 31)-----	--	2
Farm Management (F. M. 102)-----	4	--
Horticultural Breeding Practice (Hort. 41)-----	--	1
Horticultural Research and Thesis (Hort. 42)-----	2	2
Electives -----	7	9

Olericulture

	Semester	
	I	II
<i>Junior Year</i>		
Small Fruit Culture (Hort. 4)-----	--	2
Diseases of Plants (Plt. Path. 1)-----	3	--
Genetics (Agron. 101)-----	3	--

Expository Writing (Eng. 5-6)-----	2	2
General Floriculture (Hort. 21)-----	2	--
Plant Physiology (Plt. Phy. 1)-----	4	--
Truck Crop Production (Hort. 103)-----	--	3
Vegetable Forcing (Hort. 14)-----	--	3
Electives -----	3	7

	Semester	
	I	II
<i>Senior Year</i>		
Farm Management (F. M. 2)-----	4	--
General Landscape Gardening (Hort. 31)-----	--	2
Horticultural Breeding Practice (Hort. 41)-----	--	1
Tuber and Root Crops (Hort. 12)-----	2	--
Systematic Olericulture (Hort. 104)-----	3	--
Advanced Truck Crop Production (Hort. 13)-----	--	2
Horticultural Research and Thesis (Hort. 42)-----	2	2
Horticultural Seminar (Hort. 43)-----	1	1
Electives -----	5	9

Floriculture

	Semester	
	I	II
<i>Sophomore Year</i>		
Agricultural Chemistry (Chem. 6)-----	3	3
Plant Physiology (Plt. Phy. 1)-----	4	--
General Geology (Geol. 1)-----	3	--
Principles of Soil Management (Soils 1)-----	--	3
General Floriculture (Hort. 21)-----	2	--
General Landscape Gardening (Hort. 31)-----	--	2
Elementary Pomology (Hort. 1)-----	3	--
Basic R. O. T. C. (M. I. 102)-----	2	2
Electives -----	--	7

	Semester	
	I	II
<i>Junior Year</i>		
Greenhouse Management (Hort. 22)-----	3	3
Floricultural Practice (Hort. 23)-----	2	2
Floricultural Trip (Hort. 27)-----	--	1
Greenhouse Construction (Hort. 24)-----	--	2
Garden Flowers (Hort. 26)-----	3	--
Expository Writing (Eng. 5-6)-----	2	2
Principles of Economics (Econ. 5)-----	--	4
Diseases of Plants (Plt. Path. 1)-----	3	--
Systematic Botany (Bot. 2)-----	--	2
Elements of Landscape Design (Hort. 133)-----	3	--
Electives -----	1	1

<i>Senior Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Commercial Floriculture (Hort. 25)-----	3	3
Plant Materials (Hort. 105)-----	2	2
Vegetable Forcing (Hort. 14)-----	--	3
Agricultural Economics (A. E. 1)-----	3	--
Horticultural Breeding and Practice (Hort. 41)-----	--	1
Horticultural Seminar (Hort. 43)-----	1	1
Horticultural Research and Thesis (Hort. 42)-----	2	2
Diseases of Ornamentals (Plt. Path. 104)-----	2	--
Electives -----	4	5

Landscape Gardening

<i>Freshman Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Gen. Chem. and Qual. Anal. (Inorg. Chem. 1)-----	4	4
General Zoology (Zool. 1)-----	4	--
General Botany (Bot. 1)-----	--	4
Composition and Rhetoric (Eng. 1)-----	3	3
Public Speaking (P. S. 1-2)-----	1	1
Algebra; Trigonometry (Math. 1)-----	3	3
Basic R. O. T. C. (M. I. 1)-----	1	1

<i>Sophomore Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
French or German-----	3-4	3-4
Plant Physiology (Plt. Phy. 1)-----	4	--
General Geology (Geol. 1)-----	3	--
Principles of Soil Management (Soils 1)-----	--	3
Plane Surveying (Sur. 1-2)-----	1	2
General Landscape Gardening (Hort. 31)-----	--	2
Expository Writing (Eng. 5-6)-----	2	2
Engineering Drafting (Dr. 1)-----	1	1
Basic R. O. T. C. (M. I. 2)-----	2	2
Electives -----	1-0	2-1

<i>Junior Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Elementary Pomology (Hort. 1)-----	3	--
Plant Materials (Hort. 105)-----	2	2
History of Landscape Gardening (Hort. 34)-----	--	1
Elements of Landscape Design (Hort. 32)-----	3	--
Garden Flowers (Hort. 26)-----	3	--
Principles of Economics (Econ. 1)-----	--	4
Diseases of Plants (Plt. Path. 1)-----	3	--
Systematic Botany (Bot. 2)-----	--	2
Farm Drainage (F. Mech. 107)-----	--	2
Electives -----	6	6

<i>Senior Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Highways (C. E. 3)-----	4	--
Landscape Design (Hort. 33)-----	3	3
Landscape Construction and Maintenance (Hort. 35)-----	--	1
Civic Art (Hort. 36)-----	2	--
Horticultural Research and Thesis (Hort. 42)-----	2	2
Horticultural Seminar (Hort. 43)-----	1	1
Electives -----	5	10

POULTRY HUSBANDRY

The course in Poultry Husbandry is designed to give the student a broad view of the practices of poultry raising. Those students who expect to develop into teachers, extension workers or investigators should choose as electives such subjects as psychology, economic history, sociology, philosophy, political science and kindred subjects.

<i>Junior Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Poultry Production (Poultry 103)-----	--	4
Expository Writing (Eng. 5 and 6)-----	2	2
General Bacteriology (Bact. 1-2)-----	3	3
Genetics (Agron. 110)-----	3	--
Poultry Keeping (Poultry 102)-----	4	--
Agricultural Economics (A. E. 1)-----	3	--
Electives -----	2	4

<i>Senior Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Farm Management (F. M. 2)-----	4	--
Farm Accounting (F. M. 1)-----	--	4
Animal Hygiene (V. M. 102)-----	--	3
Poultry Breeds (Poultry 104)-----	4	--
Poultry Management (Poultry 105)-----	--	4
Marketing Farm Products (A. E. 2)-----	--	3
Electives -----	6	3

SOILS

The Department of Soils gives instruction in the physics, chemistry and biology of the soil, the courses being designed to equip the future farmer with a complete knowledge of his soil and also to give adequate training to students who desire to specialize in soils. Students who are preparing to take up research or teaching are expected to take graduate work in addition to the regular undergraduate courses that are offered. The department possesses the necessary equipment and facilities for the

instruction in these subjects, and in addition affords opportunities for the student to come in contact with the research at the Agricultural Experiment Station, especially in the pot culture laboratories and on the experimental fields at the station and in other parts of the State.

Graduate students will find unusual opportunities to fit themselves for teaching soils in agricultural colleges, to conduct research in experiment stations, and to carry on work with the Bureau of Soils, United States Department of Agriculture.

<i>Junior Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
Expository Writing (Eng. 5-6)	-----	1	2
Agricultural Economics (A. E. 1)	-----	2	2
General Bacteriology (Bact. 1)	-----	3	--
Soil Micro-biology (Soils 7)	-----	3	--
Fertilizers and Manures (Soils 2)	-----	--	3
Soil Fertility (Soils 3)	-----	3	--
Plant Physiology (Plt. Phy. 1)	-----	--	3
Cropping Systems and Methods (Agron. 120)	-----	4	--
Electives	-----	--	2
		5	4

<i>Senior Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
Farm Management (F. M. 2)	-----	4	--
Methods of Soil Investigation (Soils 102)	-----	--	2
Soil Surveying and Classification (Soils 5)	-----	3	--
Soil Technology (Soils 101)	-----	3	3
Farm Drainage (F. Mech. 107)	-----	--	2
Seminar (Soils 111)	-----	1	1
Electives	-----	7	5

SHORT COURSE IN AGRICULTURE

A. Students who have had four years of high school training or its equivalent may follow a two-year curriculum of regular college courses designated by the dean. A certificate is granted by the college upon completion of the work. If, after the student has been awarded a certificate, he is desirous of taking work for a degree, he may continue for two years with a regular college curriculum.

B. Another two-year curriculum, commonly known as "The Two-Year Agricultural Course," is sub-collegiate in nature. To enter this two-year work the applicant must have preparation at least equal to the work given in the seventh grade of the public schools. At the conclusion of the course students having completed the regular work as outlined are given a certificate stating the studies pursued during the time spent in the college. No college credit toward a degree is given for work done in any of these courses.

AGRICULTURAL EXPERIMENT STATION

HARRY J. PATTERSON, *Director*.

The agricultural work of the University naturally comprises three fields: research, instruction and extension. The Agricultural Experiment Station is the research agency of the University, which has for its purpose the increase of knowledge relating to agriculture, primarily for the direct benefit of the farmer. It is also the real source of agricultural information for use in the classroom and for demonstrations in the field.

The Experiment Station work is supported by both State and Federal appropriations. The Hatch act passed by Congress in 1887 appropriates \$15,000 annually; the Adams act, passed in 1906, provides an additional \$15,000 annually, and the Purnell act, passed in 1925, provides \$20,000 for the next fiscal year and an increase of \$10,000 each year until the amount reach \$60,000 annually.

The objects, purposes and work of the Experiment Stations as set forth by these acts are as follows:

"That it shall be the object and duty of said Experiment Stations to conduct original researches or verify experiments on the physiology of plants and animals; the diseases to which they are severally subject, with the remedies for the same; the chemical composition of useful plants at their different stages of growth; the comparative advantages of rotative cropping as pursued under a varying series of crops; the capacity of new plants or trees for acclimation; the analysis of soils and water; the chemical composition of manures, natural or artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses and forage plants; the composition and digestibility of the different kinds of food for domestic animals; the scientific and economic questions involved in the production of butter and cheese; and such other researches or experiments bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective States or Territories."

The Purnell act also permits the appropriation to be used for conducting investigations and making experiments bearing on the manufacture, preparation, use, distribution and marketing of agricultural products and for such Economic and Sociological investigations as have for their purpose the development and improvement of the rural home and rural life.

The Maryland Station, in addition to the work conducted at the University, operates a sub-station farm of fifty acres at Ridgely, Caroline County, and a farm of about sixty acres at Upper Marlboro for tobacco

investigations. Experiments in co-operation with farmers are conducted at many different points in the State. These tests consist of studies with soils, fertilizers, crops, orchards, insect and plant disease control and stock feeding.

The results of the Experiment Station work during the past quarter of a century have developed a science of agriculture to teach and have laid a broad and substantial foundation for agricultural development. The placing of agricultural demonstrations and extension work on a national basis has been the direct outgrowth of the work of the Experiment Stations.

The students taking courses in agriculture are kept in close touch with the investigations in progress.

EXTENSION SERVICE

THOMAS B. SYMONS, *Director*.

Agriculture and Home Economics

The agricultural and home economics extension service of the University, in co-operation with the United States Department of Agriculture, carries to the people of the State through practical demonstrations conducted by specialists of the College of Agriculture and county agents, the results of investigations in the fields of agriculture and home economics. The organization consists of the administrative forces, including the director, assistant director, specialists and clerical force, the county agricultural demonstration agents, and the home demonstration agents in each county of the State. The county agents and the specialists jointly carry on practical demonstrations under the several projects in the production and marketing of crops or in home-making, with the view of putting into practice on the farms of the State improved methods of agriculture and home economics that have stood the test of investigation, experimentation and experience. Movable schools are held in the several counties. At such schools the specialists discuss phases of agriculture and home economics in which the people of the respective counties are particularly interested.

The work of the Boys' Agricultural Clubs is of especial importance from an educational point of view. The specialists in charge of these projects, in co-operation with the county agricultural agent and the county school officers and teachers, organize the boys of the several communities of the county into agricultural clubs for the purpose of teaching them by actual practice the principles underlying agriculture. The boys hold regular meetings for the discussion of problems connected with their several projects and for the comparison of experiences. Prizes are offered to stimulate interest in the work.

The home economics specialists and agents organize the girls into clubs for the purpose of instructing them in the principles underlying canning, drying and preserving fruits and vegetables, cooking, dressmaking and other forms of home economics work.

The educational value of the demonstrations, farmers' meetings, movable schools, clubs and community shows is incalculable. They serve to carry the institution to the farmer and to the home-maker.

General Extension

This phase of the extension service of the University is conducted in co-operation with the United States Bureau of Education, and is intended to make the general branches of the educational curriculum of greater service to the people of the State.

COLLEGE OF ARTS AND SCIENCES

FREDERIC E. LEE, *Dean.*

The College of Arts and Sciences provides four years of liberal training in biological sciences, economics and business administration, history, languages and literature, mathematics, philosophy, physical sciences, political science, psychology and sociology. It thus affords the student an opportunity to acquire a general education which shall serve as a foundation for success in whatever profession or vocation he may choose. It particularly prepares the way and lays the foundation for the learned professions of law, medicine, theology, teaching and even for the more technical professions of engineering, public health service and business administration. Through the aid which it furnishes other colleges of the University it aims to give students of these colleges the broad outlook necessary for liberal culture and for public service.

This College is an outgrowth of the Division of Language and Literature of Maryland State College and later of the School of Liberal Arts of the University. In 1921 the School of Liberal Arts and the School of Chemistry were combined and other physical and biological sciences were brought into the newly formed College of Arts and Sciences, thus making it a thoroughly standardized Arts and Science College. In 1922-1923 the scope and program of the various groups and departments of the College were extensively reorganized in order to broaden and amplify the courses of instruction offered.

Requirements for Admission

The requirements for admission to the College of Arts and Sciences are in general the same as those for admission to the other colleges and schools of the University. See Section I, "Entrance."

For admission to the pre-medical and pre-dental curricula two years of any one foreign language in addition to the regularly prescribed units are required. A detailed statement of the requirements for admission to the School of Medicine and the relation of these to the pre-medical curriculum will be found under the School of Medicine.

Departments

There are twelve departments under the administrative control of the College of Arts and Sciences: Classical Languages, Chemistry, Economics and Business Administration, English, History and Political Science, Mathematics, Modern Languages, Philosophy and Ethics, Physics, Public Speaking, Sociology, and Zoology and Aquiculture. In addition to these, there are other departments which, although they are under the control of other colleges of the University, furnish instruction for the College of

Arts and Sciences: Bacteriology, Botany, Entomology, Geology, Military Science, Physical Education and Psychology. Students in this college are also permitted to elect certain courses in the Colleges of Agriculture, Education, Engineering and Home Economics.

Degrees

The degrees conferred upon students who have met the prescribed conditions for a degree in the College of Arts and Sciences are: Bachelor of Arts and Bachelor of Science.

The baccalaureate degree from the College of Arts and Sciences may be conferred upon a student who has satisfied all entrance requirements and has secured credit for a minimum of 127 credit hours including six hours of military science for all able-bodied men students and six hours of physical education for all women students and one hour of library science for all students except those taking the special curricula in chemistry, business administration, and the combined courses in which there are special requirements.

Graduates of this college who have completed the regular course are awarded the degree of Bachelor of Arts, except that, upon request, any student who has met the requirements for that degree may be awarded the degree of Bachelor of Science, provided the major portion of his work has been done in the field of science and his application has the approval of the department in science in which his major work has been carried. Students who have elected the combined program of Arts and Medicine are granted the degree of Bachelor of Arts or Bachelor of Science after the completion of at least three years of the work of this college and the first year of the School of Medicine. Those electing the combined five-year Academic and Nursing Course are awarded the degree of Bachelor of Science upon the completion of the full course. Those taking the combined course in Arts and Law will be awarded the Bachelor of Arts degree after the completion of three years of the work of this college and one year of full-time law courses, or its equivalent, in the University Law School. This last combined program will not be in full effect until after September, 1927, by which time the Law School will require two years of pre-law courses for admission.

The last thirty hours of Arts courses in all the combined programs must be completed in residence at College Park. Likewise, the last thirty hours of the regular course leading to a degree must be taken in College Park.

Normal Load

The normal load for the Freshman year is seventeen hours a week for the first semester, including one hour of library science and one hour of military science or physical education, and sixteen hours for the second semester. The Sophomore load is seventeen hours per semester, two hours of which are military science or physical education.

The normal load for the Junior and Senior years is fifteen hours.

Absolute Maximum

Students whose average grade for the preceding year is a straight B or above may be permitted to take additional hours for credit with the approval of the Dean, *but in no case shall the absolute maximum of 19 hours per week be exceeded.* In the majority of cases it is better for the student to put in four full years in meeting the requirements for a degree than to try to cover the course in a shorter period by taking additional hours.

Freshman-Sophomore Requirements

(a) Before the beginning of the Junior year the student must have completed sixty credit hours in basic courses, at least four or five of which must be taken from each of six of the eight groups described below under major and minor requirements.

(b) Not more than twenty of these hours may be taken in one department.

(c) Freshmen and sophomores may not carry more than twelve hours in one group at a time.

Freshman Program	Semester	
	I	II
English 1	3	3
Foreign Language	4-3	4-3
Science (Biological or Physical)	4	4
Public Speaking 1-2	1	1
R. O. T. C., M. I. 1 or Physical Education 1	1	1
Library Science 1	1	--
Elect one of the following:		
*Elements of Social Science 1	3	3
**Mathematics 1-2	3	3
Modern European History (Hist. 1)	3	3
English Literature (Eng. 2)	3	3
Total hours	17	16

Sophomore Year

The curriculum of the Sophomore year has been arranged on the basis of a wider election of courses than has heretofore prevailed, but the selection of these courses must be strictly within the limits set forth above under Freshman-Sophomore requirements.

* Prerequisite to the advanced courses in Economics, Government and Sociology.

** Prerequisite to Physics and necessary for students pursuing advanced courses in Chemistry.

Major and Minor Requirements

For the purpose of choosing major and minor fields of study, the courses of instruction open to students in this College are divided into eight groups. During this academic year minors only may be carried in Groups II and VII.

Groups

- I. Biological Sciences.
- II. Classical Languages and Literature.
- III. English Language and Literature.
- IV. History and the Social Sciences.
- V. Mathematics.
- VI. Modern Languages and Literatures.
- VII. Philosophy, Psychology and Education.
- VIII. Physical Sciences.

(a) A major shall consist of not less than 20 and not more than 40 hours in a Department, and of not less than 30 and not more than 60 in the group including the major department.

(b) A minor shall consist of not less than 20 and of not more than 30 credit hours in a group related to the major group, not more than 25 of which shall be in any one department. Any hours taken in excess of this maximum in the minor group will not count as credit hours toward a degree. The minor must be approved by the major department.

(c) At the beginning of his Junior year each student (except those following prescribed curricula) must select a major in one of Groups I to VIII and before graduation must complete one major and one minor. In certain exceptional cases two minors may be allowed, but in no case will any hours above the maximum of 30 in either minor be counted for credit toward a degree.

(d) The courses constituting a major must be chosen under the supervision of the faculty of the department in which the major work is done and must include a substantial number of courses not open to freshmen and sophomores.

Specific Requirements for Graduation

Before graduation the following specific requirements must be completed by all students.

- A. Military Science 1-2, six hours.
- B. Library Science 1, one hour.
- C. Group Requirements:

- I. *English*—The required course in Composition and Rhetoric and two hours of Public Speaking. In addition at least a one-semester course must be taken in some form of advanced composition or in literature.

- II. *Foreign Languages and Literature*—If a student enters the University with but two units of language or less, he must pursue the study of foreign language through two years' courses or the equivalent. If three or more units of foreign language are offered for entrance he must continue the study of one foreign language through one year of his college course. Students who offer two units of a foreign language for entrance but whose preparation is not adequate for the second year of that language, may receive only half credit for the first year's course.
- III. *History and the Social Sciences*—At least eight hours of history, economics, political science, or sociology, which shall include at least a one-semester course in history other than State history.
- IV. *Mathematics and Natural Sciences*—A minimum requirement of eight hours of laboratory science with a minimum of twelve hours in this group.
- V. *Education, Philosophy, and Psychology*—Six hours, with at least one course in Philosophy or Psychology.

Completion of Specific Requirements

It is strongly recommended that students complete as much of the above specifically prescribed work by the end of the Sophomore year as can be taken without interfering with the general Freshman-Sophomore requirements. All of the specific requirements for graduation must be met before a student may be admitted to full senior standing.

Junior-Senior Requirements

The work in the Junior and Senior years is elective within the limits set by the Major and Minor requirements and the completion of the specific requirements as outlined above.

Students With Advanced Standing

Students entering the Junior year of the College of Arts and Sciences with advanced standing from other universities or from other colleges of this university will be required to meet the requirements respecting studies of the first two years only to the extent of their deficiencies in credits in Arts and Science subjects for full junior standing. Scholarship requirements as outlined in Section I of this catalogue will apply to all courses offered for advanced standing.

Electives in Other Colleges and Schools

A limited number of courses may be counted for credit in the College of Arts and Sciences for work done in other colleges of the University.

The number of semester hours accepted from the various colleges is as follows:

- College of Agriculture—Fifteen.
- College of Education—Twenty.
- College of Engineering—Fifteen.
- College Home Economics—Twenty.
- School of Law—Thirty in combined program.
- School of Medicine—Thirty in combined program.
- School of Nursing—Two years in combined program.

Student Responsibility

The individual student will be held responsible for the selection of his courses and major in conformity with the preceding regulations.

Advisers

Each new student may be assigned to a member of the faculty as his personal adviser who will assist him in the selection of his courses, the arrangement of his schedule, and any other matters on which he may need assistance or advice. The faculty adviser acts in this capacity as assistant and representative of the Dean, who is charged with the execution of all of the foregoing rules and regulations.

SPECIAL CURRICULA

Special curricula are provided in Chemistry, Business Administration, for the Pre-Medical, Pre-Dental, and Pre-Law courses; and for the combined programs in Arts and Nursing and Arts and Law.

CHEMISTRY

In order that the Chemistry Department of the College of Arts and Sciences may best serve the various demands laid upon it by the University and State, it is divided into the following divisions:

- | | |
|---------------------------|-----------------------|
| 1. Inorganic. | 5. Physical. |
| 2. Organic. | 6. Industrial. |
| 3. Analytical. | 7. State control work |
| 4. Agricultural and Food. | of fertilizers, feed |
| | and lime analysis. |

These divisions, except 7, furnish courses giving the basic principles of chemistry which serve as a necessary part of a general education and which lay a foundation for scientific and technical work such as medicine, engineering, agriculture, dentistry, pharmacy, etc.

Besides serving in this fundamental way the Divisions furnish courses in preparation for the following careers:

1. *Industrial Chemist*—The State of Maryland, including the chemistry bureaus of Washington, is a great center of chemical industry. Rarely a week passes that some industry or bureau does not call for a man well trained in chemistry. Fundamental chemistry is becoming more and more to be realized as the basis of many industries. Many apparently efficient chemical industries have been greatly improved by the application of modern chemistry. Chemical corporations employ chemists to manage and develop units of their plants. See Curriculum II.

2. *Food and Agricultural Chemist*—There has never been a greater demand for food chemists than at the present time. Various bureaus and food laboratories are calling for men who have a good grounding in modern chemistry, including microscopy. Courses have been arranged to meet this demand. Curriculum III may be so adjusted through its electives to fit a man for agricultural experiment stations, bureaus of soils, geological surveys, as well as for food laboratories.

3. *Teachers of Chemistry*—There is a growing need of suitably trained chemistry teachers. The American Chemical Society is now taking steps to encourage better teaching of chemistry in high schools, colleges and universities. The Chemistry Department feels that it is its duty to help carry this message to the teachers of Maryland by encouraging a better correlation between the high school chemistry and college chemistry and also by giving courses where students may find a good preparation for the profession of teaching chemistry. Curriculum I as outlined not only offers the science, but in co-operation with the College of Education, the students are able to take the educational subjects which are required to obtain the special teacher's diploma. To prepare for college teaching it is necessary to take graduate work leading, at least, to a master's degree.

4. *Research Chemist*—There is no line of work more important in the State than chemical research. During the war people had this brought home to them in a very definite way. Since the war, chemists have turned their attention to constructive chemical research work.

Perhaps the two most prominent pieces of constructive work are the eradicating of diseases of both plants and animals, and the increase of production in both farming and industry. The research at the University of Maryland is being fundamentally directed along these lines. Special work is being done by the department in eradicating tuberculosis.

The Chemistry Department gives courses leading to higher degrees which fit men for these positions. (See Graduate School.)

CHEMISTRY CURRICULA

The following curricula are given to aid students in the choice of subjects:

<i>Freshman Year</i>		<i>Semester</i>	
<i>Required of All Chemistry Students</i>		<i>I</i>	<i>II</i>
Composition and Rhetoric (Eng. 1)-----		3	3
Modern Language, French or German-----		4	4
Mathematics (Math. 3)-----		5	5
General Chemistry (Chem. 1A or 1B)-----		4	4
*Drafting (Dr. 1)-----		1	1
*Library Methods (L. S. 1)-----		1	--
Basic R. O. T. C. (M. I. 1)-----		1	1

<i>Sophomore Year</i>		<i>Semester</i>	
<i>Required of All Chemistry Students</i>		<i>I</i>	<i>II</i>
Public Speaking (P. S. 1)-----		1	1
Physical Chemistry (Chem. 10)-----		2	2
Elementary Colloid Chemistry (Chem. 11)-----		--	2
Qualitative Analysis (Chem. 2)-----		2	--
Physics (Phys. 2)-----		5	5
Plain Analytics and Calculus (Math. 4, 5)-----		3	3
*Descriptive Geometry (Dr. 2)-----		2	2
*Psychology (Psych. 1)-----		--	3
Basic R. O. T. C. (M. I. 2)-----		2	2

I. GENERAL CHEMISTRY

<i>Junior Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
Public Speaking (P. S. 4)-----		1	1
Advanced Composition and Rhetoric (Eng. 3)-----		2	2
Economics (Econ. 5)-----		3	3
Organic Chemistry (Chem. 8)-----		4	4
Quantitative Analysis (Chem. 6)-----		4	4
Chemical Calculations (Chem. 3)-----		1	1

<i>Senior Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
Bacteriology (Bact. 101)-----		--	3
Physical Chemistry (Chem. 102, 103)-----		4	4
Industrial Chemistry (Chem. 110)-----		3	3
Seminar (Chem. 225)-----		1	1
Electives -----		7	4

II. INDUSTRIAL CHEMISTRY

<i>Junior Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
Engineering Geology (Engr. 2)-----		1	1
Engineering Mechanics (Mech. 1-2)-----		4	4

* Alternatives.

Prime Movers (Engr. 1)-----	3	2
Organic Chemistry (Chem. 8)-----	4	4
Analytical Chemistry (Chem. 6)-----	4	4
Chemical Calculations (Chem. 3)-----	1	1
Mineralogy and Assaying (Chem. 5)-----	2	2

<i>Senior Year</i>		<i>Semester</i>
	<i>I</i>	<i>II</i>
Physical Chemistry (Chem. 102-103)-----	4	4
Industrial Chemistry (Chem. 110-111)-----	6	6
Eng. Jurisprudence (Engr. 101)-----	1	--
Technology of Fuels and Chemistry of Power Plants (Chem. 115)-----	2	--
Mech. Lab. (M. E. 107)-----	1	1
Thermodynamics (Chem. 219y)-----	3	--
Seminar (Chem. 225)-----	1	1
Electives-----	--	6

III. AGRICULTURAL AND FOOD CHEMISTRY

<i>Junior Year</i>		<i>Semester</i>
	<i>I</i>	<i>II</i>
Organic Chemistry (Chem. 8)-----	4	4
Food Inspection and Analysis (Chem. 105)-----	4	4
Advanced Composition and Rhetoric (Eng. 3)-----	2	2
Botany (Bot. 1)-----	4	--
Zoology (Zool. 1)-----	--	4
Economics (Econ. 5)-----	3	3
Public Speaking (P. S. 4)-----	1	1

<i>Senior Year</i>		<i>Semester</i>
	<i>I</i>	<i>II</i>
Physical Chemistry-----	4	4
Physiological Chemistry (Chem. 104)-----	4	--
Food Chemistry (Chem. 109)-----	--	4
Feeds and Feeding (A. H. 2)-----	3	--
Dairy Products (D. H. 7)-----	--	3
Geology (Geol. 1), or Physics (Phys. 105)-----	3	--
Soils-----	--	3
Seminar (Chem. 225)-----	1	1

Co-operative Program in Chemistry

Arrangements have been made with certain industries so that students of high average ability, by utilizing their summers, may take a four-year course leading to a B. S. in chemistry, and at the same time earn sufficient money to meet a large part of their expenses during the last two years. This plan is made possible by the following proportionment of time:

PROPORTIONMENT OF A STUDENT'S FOUR-YEAR COLLEGE CAREER

	First Year		First Summer		Second Year		Second Summer	
	1st Sem.	2nd Sem.			1st Sem.	2nd Sem.		
	Sept. 15 to Feb. 1	Feb. 1 to June 15	June 15 to Aug. 15	Aug. 15 to Sept. 15	Sept. 15 to Feb. 1	Feb. 1 to June 15	June 15 to Sept. 15	
Time								
Occupation	Study	Study	Study	Vacation	Study	Study	Work	
Credit Hours	15	15	8		18	18		
	Third Year		Third Summer		Fourth Year			
	1st Sem.	2nd Sem.			1st Sem.	2nd Sem.		
	Sept. 15 to Feb. 1	Feb. 1 to June 15	June 15 to Sept. 1	Sept. 1 to Sept. 15	Sept. 15 to Feb. 1	Feb. 1 to June 15		
Time								
Occupation	Study	Work	Study	Vacation	Work	Study		
Credit Hours	18		10			18		

It will be noted that the credit hours total 120, which fulfills the standard requirement in an Arts and Science College, and that this is done without taking more than 18 hours in any one semester. Since the co-operation with the industries does not begin until the second year, most of the student's work in departments other than the chemistry department has been completed. On the other hand, if these subordinate courses have not been finished, no difficulty arises, for all shifts come at the usual break in the scholastic year (June 15th or Feb. 1st). It may be further noted that while a junior is studying, a senior is working, and vice versa. In this way the job is manned continuously, and each student gets one year of practical experience during his last two years in college.

Some advantages which the plan offers to the student are the following:

1. Utilizes his summers along lines which are in tune with his life work;
2. Gives him an outlook upon a practical field while studying, and helps him to see the need of acquiring chemical knowledge;
3. Brings him in contact with the practical men of the country and, hence, helps him to get a vision of the practical side of the science;
4. Acts as vocational guidance, i. e., the student knows at the end of four years whether or not he wishes to be a chemist;
5. He will usually be placed at the end of four years, for he has had a chance to show his worth to someone who needs a man;
6. He earns sufficient money to nearly pay his expenses during his last two years in college.

Each of the above curricula may be worked on this plan.

BUSINESS ADMINISTRATION

By reason of the curtailment of work in the School of Business Administration of the University after June, 1926 (See Page 121), a curriculum in Business Administration has been re-established in the College of Arts and Sciences under the Department of Economics and Business Administration.

The aim of this curriculum is to afford those who propose to enter business as a career a training in the general principles of business. The work is based on the view that through a study of the best business methods there may be obtained valuable mental discipline and at the same time a knowledge of business technique that will make for a successful business career. Business demands today particularly men who are broadly trained and not men narrowly drilled in routine. Hence, two years of liberal college training are very desirable for students desiring to enter a business career. The curriculum provides for this broad cultural background as well as the special training in business subjects.

<i>Freshman Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
English 1	3	3
Foreign Languages	4-3	4-3
Science (Physical or Biological)	4	4
Public Speaking 1-2	1	1
Elements of Social Science 1	3	3
R.O.T.C., M.I. 1 or Phys. Ed. 1	1	1
Elect one of the following:		
Modern European History, Hist. 1	3	3
Mathematics 1-2	3	3
English Literature, Eng. 2	3	3
	18	18

<i>Sophomore Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Econ. Geog. and Industry Econ. 2	3	--
Psychology, Psych. 1	--	3
Economic History of England, Econ. 3	3	--
Economic History of the United States, Econ. 4	--	3
Business English, Eng. 17-18	2	2
General Economics, Econ. 5	3	--
Practical Economic Problems, Econ. 6	--	3
R.O.T.C. 2	2	2
Elect four hours from the following:		
Gov't. of the U. S., Pol. Sci. 2	3	--
Gov'ts. of Europe, Pol. Sci. 3	--	3
Foreign Language	4-3	4-3

Science	4	4	4	4
English History, Hist. 2-3	3	3		
Advanced Pub. Speaking, P. S. 2	2	--		
Extempore Speaking, P. S. 7-8	1	1		
Debate, P. S. 9	2	--		
Argumentation, P. S. 10	--	2		
			17	17

<i>Junior Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Money and Credit, Econ. 102	3	--
Principles of Banking, Econ. 103	--	3
General Accountancy, Econ. 120	3	3
Business Organization, Econ. 115	3	--
Corporation Finance, Econ. 116	--	3
Math. Theory of Investment, Math. 101	3	--
Elements of Statistics, Math. 102	--	3
Electives*	3	3
	15	15

*Electives should be chosen as far as possible from the list of Specific Requirements for Graduation.

<i>Senior Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Business Law, Econ. 118	3	3
Investments Principles, Econ. 106	--	3
Public Finance, Econ. 110	--	3
General Sociology, Soc.	3	--
Elect one of the following:		
Public Utilities, Econ. 122	3	3
Railway Transportation, Econ. 121	3	--
Electives**	9	3
	15	15

**Complete Specific Requirements for Graduation.

THE PRE-MEDICAL CURRICULUM

The pre-medical curriculum includes the subjects and hours prescribed by the Council on Medical Education of the American Medical Association, with additional subjects and hours, totaling 68 semester hours exclusive of military drill.

Preference will be given to students entering the School of Medicine of the University of Maryland, who present the credits obtained by the successful completion of this curriculum or its equivalent of 68 hours.

In addition a combined seven-year curriculum is offered leading to the degrees of Bachelor of Science, or Bachelor of Arts and Doctor of Medicine. The first three years are taken in residence at College Park and the last four years in Baltimore at the Medical School. The pre-medical curriculum constitutes the first two years' work, and a third year following the general outline given below, with the electives approved by the chairman of the Pre-Medical Committee and the Dean of the College of Arts and Sciences, completes the studies at College Park.

Upon the successful completion of the first year in the Medical School and the recommendation of the Dean, the degree of Bachelor of Science or Bachelor of Arts may be conferred by the College of Arts and Sciences at College Park.

Students are urged to consider carefully the advantages this combination course offers over the minimum requirements of the two years. By completing three years the training may be greatly broadened by a wider latitude in the election of courses in the arts subjects.

Requirements for admission, see Section I, "Entrance."

TWO-YEAR CURRICULUM

<i>Freshman Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Composition and Rhetoric (Eng. 1) -----	3	3
Mathematics (Math. 1) -----	3	3
General Zoology (Zool. 2-3) -----	4	4
Elements of Social Science (Soc. Sci. 1) -----	3	3
General Chemistry (Chem. 1) -----	4	4
Basic R. O. T. C. (M. I. 1) -----	1	1
	18	18
<i>Sophomore Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Physics (Phys. 1) -----	4	4
Organic Chemistry (Chem. 8) -----	4	4
Zoology (Zool. 8) -----	4	—
Public Speaking (P. S. 1y) -----	1	1
Elements of Psychology (Psych. 1) -----	—	3
French or German -----	4	4
Basic R. O. T. C. (M. I. 2) -----	2	2
	19	18

Combined Seven-Year Curriculum

<i>Junior Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Advanced Composition (Eng. 3-4) -----	2	2
Embryology (Zool. 101) -----	—	4

Bacteriology (Bact. 101), either Semester -----	3	—
Physical Chemistry (Chem. 10) -----	3	3
Economics (Econ. 5), either Semester -----	3	—
Quantitative Analysis (Chem 4) -----	—	3
Electives -----	4	3
	15	15

Senior Year

The curriculum of the first year of the Medical School. The students may also elect the fourth year's work from advanced courses offered in the College of Arts and Sciences.

Pre-Dental Curriculum

Students taking one year of work in the College of Arts and Sciences may be admitted to the second year of the five-year course of the School of Dentistry, provided the following program of studies has been followed.

<i>Senior Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
English (1) -----	3	3
Zoology (2-3) -----	4	4
Mathematics (1) -----	3	3
Chemistry (1) -----	4	4
Public Speaking (1) -----	1	1
R. O. T. C. (1) -----	1	1
Soc. Sci. 1 (may be elected) -----	3	3
	19	19

If a second year of pre-dental education is completed in the College of Arts and Sciences it should include the following courses: Physics (1), and Organic Chemistry (Chem. 8). The balance of the program will be made up of approved electives.

Five-Year Combined Arts and Nursing Curriculum

The first two years of this course are taken in the College of Arts and Sciences at College Park. If students enter this combined program with advanced standing at least the second full year of the course must be completed in College Park.

The remaining three years are taken in the School of Nursing in Baltimore or in the Training School of Mercy Hospital, Baltimore. The degree of Bachelor of Science and the Diploma in Nursing are granted at the end of the five-year course. Fuller details regarding this course may be found in the section of the catalogue dealing with the School of Nursing.

Two-Year Program in the College of Arts and Sciences

<i>Freshman Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
English Composition and Rhetoric (Eng. 1)-----	3	3
Foreign Language -----	4-3	4-3
General Chemistry (Chem. 1)-----	4	4
Elements of Social Science (Soc. Sci. 1)-----	3	3
Elementary Foods (H. E. 1)-----	3	3
Physical Education (Phys. Ed. 1)-----	1	1
	18	18

<i>Sophomore Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
English Literature or History-----	3	3
Organic and Food Chemistry-----	3	--
Nutrition -----	--	3
General Economics (Econ. 5)-----	3	--
Elements of Psychology (Psych. 1)-----	--	3
Gen. Zoology (Zool. 1)-----	4	--
Public Speaking (P. S. 1)-----	1	1
Physical Education (Phys. Ed. 2)-----	2	2
Electives -----	1	5
	17	17

Combined Program in Arts and Law

In September, 1926, the Law School of the University will require one year of academic credit for admission to the school, and in September, 1927, two years, or sixty-seven semester hours of college credit.

The University offers a combined program in Arts and Law which was started in the fall of 1925, leading to the degrees of Bachelor of Arts and Bachelor of Laws.

Students pursuing this combined program in college and pre-legal subjects will spend the first three years in the College of Arts and Sciences at College Park. During this period they will complete the prescribed curriculum in pre-legal studies as outlined below, and must complete the Specific Requirements for graduation as indicated above. If students enter the combined program with advanced standing at least the third full year's work must be completed in residence at College Park.

Upon the successful completion of one year of full-time law courses in the School of Law in Baltimore or its equivalent, the degree of Bachelor of Arts will be awarded. The degree of Bachelor of Laws will be awarded upon the completion of the combined program.

<i>Freshman Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
English, Composition and Rhetoric (Eng. 1)-----	3	3
Science or Mathematics -----	4-3	4-3
History (1) -----	3	3
Elements of Social Science (Soc. Sci. 1)-----	4-3	4-3
Latin or Modern Language-----	1	1
R. O. T. C. (M. I. 1)-----	--	--
	18	18

<i>Sophomore Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
English, Expository Writing (Eng. 5-6)-----	2	2
General Economics (Econ. 5)-----	3	--
U. S. Government (Pol. Sci. 2)-----	3	2
Public Speaking (P. S. 1y)-----	1	1
Psychology (Psych. 1)-----	--	3
Economic History (Econ. 3-4)-----	3	3
R. O. T. C. (M. I. 2)-----	2	2
Extempore Speaking (P. S. 7)-----	1	--
*Electives -----	2	6
	17	17

Junior

Largely electives, including the completion of the Specific Requirements for Graduation as outlined on page 75.

Senior

First Year of Regular Law Course

Students who are unable to take the combined program in Arts and Law may fulfill the entrance requirements of the Law School by completing the first two years of pre-legal studies as outlined in the above combined course.

MISCELLANEOUS

MUSIC

The Department of Music serves students of the University of two general classes: those who make a specialty of the subject with a view to becoming musical artists or music teachers and those who pursue musical

* Electives should be in English, History, Latin or Modern Languages, Economics or Political Science, or a part of the Specific Requirements for Graduation.

studies for purposes of enjoyment and general culture. For the former group extensive private instruction is provided with attention to technical development along particular lines; while as large provision as possible is made for all, in the various club activities and public lectures and recitals.

For courses in music see the Section III, Courses of Instruction.

Voice

Courses in voice culture are offered, covering a thorough and comprehensive study of tone production, based on the Italian method of singing.

The work required to develop a singer is begun with the most fundamental principles of correct breathing. Scale and arpeggio exercises, and all intervals, the portamento, legato, and staccato, and trill, and other embellishments to develop the technique of singing are studied through the medium of vocal exercises arranged by the greatest authorities on the voice, under the careful supervision of the instructor.

The study of songs and ballads is adapted to the ability and requirements of each singer, a thorough training being given in diction and phrasing, through the medium of sacred and secular ballads, leading to the oratorio and opera.

Opportunities are afforded all voice pupils who are capable to make public appearances in the regular pupils' recitals, as well as in the churches of the community.

Tuition

One lesson per week, term of eighteen weeks, \$24.

The above price for lessons in voice are those offered to students of the University who are pursuing regular academic courses. Terms for private instruction outside the University may be secured from the instructor in voice.

Piano

Elementary piano courses. Work for beginners, based on the Leschetizky method.

Advanced piano courses. The college work in piano presupposes three years of preparatory study of the piano part or all of which may be taken at the University.

Lessons are taken twice a week. A four-year college course is as follows:

First Year—Technical studies based on the modern weight and rotary method: Heller Etudes, Sonatas of Haydn, Mozart, and Beethoven; selections from classic and modern composers.

Second Year—Bach Preludes; concertos by classic masters; Jensen Etudes; selections from classic, romantic, and modern composers.

Third Year—Leschetizky technic; Chopin Preludes and Waltzes; Bach Inventions; Mendelssohn Concertos, Beethoven Sonatas; selections from romantic and modern composers.

Fourth Year—Leschetizky technic; Chopin Etudes; Bach Well-Tempered Clavichord; sonatas and concertos by Greig, McDowell, Schutt, Beethoven, etc., concert pieces by modern and romantic composers.

Tuition

One lesson per week, term of eighteen weeks, \$24.

Note.—Music tuitions are due in advance. Ten per cent. is added to all tuitions not paid in advance.

LIBRARY SCIENCE

A course in Library Methods is required of all students registered in the College of Arts and Sciences.

This course is intended to help students use the library with greater facility. Instruction will be given by practical work with the various catalogues, indexes and reference books. This course considers the general classification of the library according to the Dewey system. Representative works of each division are studied in combination with the use of the library catalogue. Attention is given to periodical literature, particularly that indexed in the Reader's Guide and in other periodical indexes; and to various much used reference books which the student will find helpful throughout his college course.

COLLEGE OF EDUCATION

WILLARD S. SMALL, *Dean.*

The College of Education is an organization of the various activities of the University concerned with the preparation of individuals for positions in the educational profession. Its courses are planned to serve three classes of students: First, those preparing to teach agriculture, arts and science, home economics and industrial subjects in high schools; second, prospective principals of high schools, educational supervisors, county agents, home demonstrators, boys' and girls' club workers, and other educational specialists; third, those majoring in special fields who desire courses in education for their cultural and informational values.

Requirements for Admission

The requirements for admission to the College of Education are the same as for the admission to any other college or school of the University. See Section I, "Entrance."

Degrees

The degrees conferred upon students who have met the prescribed conditions for a degree in the College of Education are: Bachelor of Arts; Bachelor of Science. Upon completion of 132 credits in conformity with the requirements specified under "curricula" and in conformity with general requirements of the University, the appropriate degree will be conferred.

Teachers' Special Diploma

The degrees granted for work done in the College of Education indicate primarily the quantity of work completed. The Teachers' Special Diploma certifies to the professional character of such work. Teachers' special diplomas will be granted only to those who, besides qualifying for a degree, give promise of superior professional ability as evidenced by their personality, character, experience and success in supervised teaching.

Teachers' special diplomas are granted in Agricultural Education, Arts and Science Education, Home Economics Education and Industrial Education.

The recipient of a teachers' special diploma is eligible for certification by the State Superintendent of Schools without examination.

Departments

The College of Education is organized into two general divisions: General Education and Vocational Education. The College includes work in the following departments offering general and professional training for teachers: Agricultural Education, Arts and Science Education, Home Economics Education and Industrial Education.

Curricula

Two types of curriculum are offered. These correspond with the two general divisions of the college organization: General Education and Vocational Education.

The first of these is designed to prepare teachers of the arts and sciences in the high schools and to prepare specialists for the profession of education. It therefore provides a wide range of electives. The basic requirements are fixed and definite, but the student may select from a number of subjects the major and minor subjects in which he expects to qualify for teaching. The student may secure the degree either of Bachelor of Arts or Bachelor of Science, depending upon his major content subject.*

The Maryland State law requires that candidates for the standard high school certificate in academic and scientific subjects must have studied for two years continuously in college the "two high school branches in which the certificate is issued."

The curricula in Vocational Education are designed for the definite purpose of preparing teachers and supervisors of agriculture, home economics, manual training and industrial subjects. They permit, therefore, comparatively little choice of subjects. As the University of Maryland is the institution designated by the State Board of Education for the training of teachers of vocational agriculture, home economics and trades and industries under the provisions of the Smith-Hughes Vocational Educational Act, the curricula in this class have been organized to meet the objectives set up in the act, and in the interpretations of the Federal Board for Vocational Education and the State Board of Education. These curricula lead to the degree of Bachelor of Science.

It is advisable for students who purpose to teach to register in the College of Education, in order that they may have continuously the counsel and guidance of the faculty which is directly responsible for their professional preparation. It is permissible, however, for a student to register in that college which in conjunction with the College of Education offers the majority of the courses he will pursue in satisfying the requirements of the curriculum he elects.

The Teachers' Special Diploma will be awarded only to the student who shall have fulfilled all of the requirements of the curriculum he elects. Students in other colleges desiring to qualify for the Teachers' Special Diploma should consult with the Dean of the College of Education at the beginning of the sophomore year in order to plan satisfactorily their subsequent programs. Adjustments may be made as late as the beginning of the Junior year. *It is practically impossible to make adjustments later than that.*

As an integral part of every curriculum of the College of Education leading to a degree, a minimum of 20 credits in Education is required.

* For information in regard to majors and minors see page 75.

The minimum includes the following prescribed subject units:

Public Education in the United States-----	2
Educational Hygiene -----	2*
Educational Psychology -----	3
Technic of Teaching-----	3
Special Methods and Supervised Teaching-----	6
Principles of Secondary Education-----	3

The special requirements peculiar to each curriculum in the College of Education are shown in the tabular statements of the curricula for Agricultural Education, Arts and Science Education and Home Economics Education.

Facilities

In addition to the general facilities offered by the University, by special arrangement with the county and state school authorities, the high school located at Hyattsville within two miles of the University provides opportunity for college credit work in supervised teaching. The observation work necessary for efficient teacher training is conducted in Washington and in nearby Maryland schools. The nearness of these schools and of the federal offices and libraries in Washington dealing with education provides unusual opportunities for contact with actual classroom situations and current administrative problems in education.

Special Courses

By special arrangement extension courses in education are offered evenings and Saturdays to teachers in service and to others who may desire to qualify for teaching in the schools of Maryland after having had such work. College credit may be granted for this work if taken in course. With present facilities only a limited amount of service of this kind can be undertaken.

As the need for evening classes in industrial and home economics education arises, special courses will be offered at centers throughout the State. The number and location of these centers will depend entirely upon the need and demand for such instruction. The courses will be organized on the short unit basis and will be maintained only so long as the demand justifies their maintenance. Upon the satisfactory completion of such courses, students will be issued certificates stating the amount and character of work done.

In the summer session special courses are offered for the benefit of teachers in service and such individuals as may be able to qualify for teaching upon the completion of the work.

Professional Preparation for Prospective Teachers

The State Board of Education will certify to teach in the approved high schools of the State only such persons as have had satisfactory professional preparation. Students who desire to teach in approved high schools of the State must, therefore, secure this professional preparation.

* Except in the agricultural education curriculum.

The State Department of Education is stimulating and encouraging instruction in music and athletics in the high schools of the State. In the majority of these schools the instruction in these subjects will have to be carried on by teachers who teach other subjects as well. Training in either or both of these subjects will be valuable for prospective teachers.

All students wishing to prepare for teaching should consult the Dean of the College of Education regarding possible combinations and the arrangement of their work. At the time of matriculation each student is expected to make a provisional choice of the subjects which he desires to prepare to teach and to secure the advice and approval of the heads of departments which offer these subjects. The previous training, the experience and the probable future needs of the student will govern the head of the department in his recommendations.

ARTS AND SCIENCE EDUCATION

Upon registration for this curriculum, students should make a provisional selection of the subjects in which they expect to qualify for teaching, designating a major and a minor interest.

Students electing this curriculum may register either in the College of Education or the College of Arts and Sciences. In any case they will register with the College of Education for the special teacher's diploma.

The Teachers' Special Diploma will be awarded only to those students who have fulfilled all the requirements of this curriculum.

<i>Freshman Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Composition and Rhetoric (Eng. 1)-----	3	3
Educational Guidance (Ed. 1)-----	1	1
Reading and Speaking (P. S. 1)-----	1	1
Basic R. O. T. C. (M. I. 1), or Physical Education (Phys. Ed. 1) -----	1	1
Foreign Language (French, German, Spanish, Latin, Greek)	4-3	4-3
*Inorganic Chemistry (Chem. 1-A or 1-B)-----	4	4
(One of the following.)		
Modern and Contemporary History (H. 1-2)-----	3	3
Elements of Social Science (Soc. Sci. 1)-----	3	3
English Literature (Eng. 2)-----	3	3
Mathematics (Math. 1) -----	3	3
	17	17

<i>Sophomore Year</i>	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Public Education in the United States (Ed. 2)-----	2	--

* This requirement does not hold in case of students who enter with two years of chemistry in the high school. Such students, with the advice and consent of the head of the Department of Chemistry, may elect advanced chemistry; or with the consent of the Dean may substitute some other subject. Students purposing to major in chemistry see page 72 for requirements.

Educational Hygiene (Ed. 3)-----	--	2
Basic R. O. T. C. (M. I. 2), or Physical Education (Phys. Ed. 2)-----	2	2
General Zoology (Zool. 1)-----	4	--
†Electives-----	10	14
	--	--
	18	18

<i>Junior Year</i>		
	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Educational Psychology (Ed. 101)-----	3	--
Technic of Teaching (Ed. 102)-----	--	3
English (one three-hour course)-----	3	3
†Electives-----	10	10
	--	--
	16	16

<i>Senior Year</i>		
	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Special Methods and Supervised Teaching (Ed. 110, 111, 112, 113, 114)-----	3	3
Principles of Secondary Education (Ed. 103)-----	--	3
†Electives-----	12	9
	--	--
	15	15

AGRICULTURAL EDUCATION

The objectives of the curriculum in Agricultural Education are the teaching of secondary vocational agriculture, the work of county agents, and allied lines of the rural educational service.

In addition to the regular entrance requirements of the University, involving graduation from a standard four-year high school, students electing the agricultural education curriculum must present evidence of having acquired adequate farm experience after reaching the age of fourteen years.

The electives allowed by this curriculum may be selected from any of the courses offered by the University for which the student has the necessary prerequisites. A student is expected, however, to confine his elections to subjects relating to farming and to teaching. Though a certain amount of specialization in a particular field of agriculture such as animal husbandry, agronomy, pomology, vegetable gardening, agricultural economics, or farm management, is encouraged, students should arrange their work so that approximately forty per cent. of their time will have been spent on technical agriculture, twenty-five per cent. on scientific subjects, twenty per cent. on subjects of a general educational character, and from twelve to fifteen per cent. on subjects in professional education.

† The electives will be determined by the student's choice of major and minor subjects.

Students electing this curriculum may register either in the College of Education or the College of Agriculture. In either case they will register with the College of Education for the teacher's special diploma. The teacher's special diploma will be awarded only to those students who have fulfilled all of the requirements of this curriculum.

<i>Freshman Year</i>		
	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Educational Guidance (Ed. 1)-----	1	1
General Animal Husbandry (A. H. 1)-----	3	--
Principles of Vegetable Culture (Hort. 11)-----	--	3
General Chemistry (Chem. 1-A or 1-B)-----	4	4
General Botany (Bot. 1)-----	4	--
General Zoology (Zool. 1)-----	--	4
Composition and Rhetoric (Eng. 1)-----	3	3
Basic R. O. T. C. (M. I. 1)-----	1	1

<i>Sophomore Year</i>		
	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Public Education in the United States (Ed. 2)-----	2	--
Diseases of Plants (Plt. Path. 1)-----	3	--
General Entomology (Ent. 1)-----	--	3
Field Crop Production (Agron. 1-2)-----	3	3
Geology (Geol. 1)-----	3	--
Principles of Soil Management (Soils 1)-----	--	3
Feeds and Feeding (A. H. 2)-----	3	--
Farm Dairying (D. H. 1)-----	--	3
Elementary Pomology (Hort. 1)-----	3	--
Principles of Economics (Economics 5-A)-----	--	3
Basic R. O. T. C. (M. I. 2)-----	2	2

<i>Junior Year</i>		
	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Educational Psychology (Ed. 101)-----	3	--
Survey of Teaching Methods (Ag. Ed. 100)-----	--	3
Public Speaking (Courses to be arranged)-----	2	2
Farm Machinery (F. Mech. 101)-----	3	--
Farm Shop (F. Mech. 104)-----	1	--
Poultry (Poultry 101)-----	--	3
Plant Physiology (Plt. Phy. 1)-----	4	--
Bacteriology (Bact. 1)-----	--	3
Agricultural Economics (A. E. 1)-----	3	--
Marketing Farm Products (A. E. 2)-----	--	3
Electives-----	2-5	2-5

<i>Senior Year</i>		
	<i>Semester</i>	
	<i>I</i>	<i>II</i>
Teaching Secondary Vocational Agriculture (Ag. Ed. 101)-----	4	4
Educational Leadership in Rural Communities (Ag. Ed. 102)-----	--	3

Teaching Farm Shop in Secondary Schools (Ag. Ed. 104)-----	1	--
Principles of Secondard Education (Ed. 103)-----	--	3
Farm Management (F. M. 2)-----	4	--
Agricultural Statistics (Agron. 122)-----	2	--
Expository Writing (Eng. 5)-----	2	2
Electives -----	3-6	3-6

HOME ECONOMICS EDUCATION

The curriculum in Home Economics Education is designed primarily to prepare teachers of secondary vocational home economics under the terms of the Smith-Hughes Act. The curriculum includes scientific and cultural courses, the essential courses in the several subdivisions of home economics and the professional courses concerned with the specific preparation for teaching. Whatever phase of the general field of home economics the student wishes to enter, the curriculum provides the fundamentals and also prepares her for teaching and administration in that special part of the field.

Practical experience in home making and in the commercial applications of home economics are valuable additions to the equipment of the teacher. It is advised, therefore, that the student be employed, in the summer of her junior year, in some form of commercial work. This may be in a department store, dress-making establishment, hotel, bakery, tea-room or other business enterprise vitally related to home economics. The practice house course in the junior year supplements home training and helps to develop managerial ability.

The Teachers' Special Diploma will be awarded only to those students who have fulfilled all the requirements of this curriculum.

<i>Freshman Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
Composition and Rhetoric (Eng. 1)-----		3	3
General Chemistry (Chem. 1)-----		4	4
Foreign Language -----	4-3	4-3	
Educational Guidance (Ed. 1)-----		1	1
Library Methods (L. S. 1)-----		1	--
Elements of Social Science (Soc. Sci. 1)-----		3	3
Physical Education (Phys. Ed. 1)-----		1	1
		--	--
		17	16

<i>Sophomore Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
Chemistry of Foods (Chem. 13)-----		4	--
General Zoology (Zool. 1)-----		--	4
Elementary Foods (H. E. 1)-----		3	3
Composition and Design (H. E. 4)-----		3	--
Costume Design (H. E. 7)-----		--	3

Textiles (H. E. 2-3)-----	2	1
Foreign Language -----	3	3
Public Education in the United States (Ed. 2)-----	2	--
Educational Hygiene (Ed. 3)-----	--	2
Physical Education (Phys. Ed. 2)-----	2	2
	--	--
	19	18

<i>Junior Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
Household Bacteriology (Bact. 3)-----		--	3
Nutrition (H. E. 100-101)-----		3	3
Educational Psychology (Ed. 101)-----		3	--
Technique of Teaching (Ed. 104)-----		--	3
Marketing and Buying (H. E. 104)-----		3	--
Home Management and Mechanics of the Household (H. E. 105)-----		3	--
Practice House (H. E. 106)-----		--	3
Education of Women (H. E. Ed. 100)-----		2	2
Electives -----		2	2
		--	--
		16	16

<i>Senior Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
Teaching Vocational Home Economics; Methods and Practice (H. E. Ed. 101)-----		3	3
Child Care and Welfare (H. E. Ed. 102)-----		3	--
Principles of Secondary Education (Ed. 103)-----		--	3
Special Applications of Physics (Phys. 3)-----		--	4
Home Architecture and Interior Decoration (H. E. 113)-----		3	--
Pattern Designing and Dressmaking (H. E. 110)-----		3	3
Electives -----		3	2
		--	--
		15	15

INDUSTRIAL EDUCATION

Three types of curricula are offered in Industrial Education, viz., a four-year curriculum, a two-year curriculum and a special curriculum.

The first two are offered as resident work at the University and the third is offered at special centers in the State where occasion demands.

Four-Year Curriculum in Industrial Education for Teachers of Related Subjects

In addition to the regular entrance requirement of the University, involving graduation from a standard four-year high school, students electing the four-year curriculum in industrial education must be willing to engage in the trades or industries during the three summer vacations.

The electives allowed by this curriculum may be chosen from any of the courses offered in the University for which the student has the necessary prerequisite.

Two-Year Curriculum in Industrial Education for Teachers of Related Subjects

This curriculum is designed for mature students who have had considerable experience in some trade or industry.

Applicants for admission to this curriculum must have as a minimum requirement an elementary school education or its equivalent and must be willing to engage in the trades and industries during the summer vacation.

The curriculum is prescribed, but will be administered flexibly, in order that it may be adjusted to the needs of students who present satisfactory credits for certain of the required courses.

Special Courses for Teachers of Trades and Related Trade Subjects

To meet the needs for industrial teacher training in Baltimore and other industrial centers, two types of extension courses are offered; one for teachers of trade subjects, the other for teachers of related trade subjects.

Applicants for admission to these classes must have had considerable experience in the line of work they expect to teach, and must have, as a minimum requirement, an elementary school education or its equivalent. The credit allowed for these courses depends upon the amount and character of the work completed.

For teachers of trade subjects the term's work deals with the analysis and classification of trade knowledge for instructional purposes, the mechanics and technique of teaching, shop and class-room management, and the organization of industrial classes. The work for teachers of related subjects is similar to that described for teachers of trade subjects except that emphasis is placed upon the analysis of their specialties in relationship to the different trades with which they are articulated.

Special announcements of the extension courses will be issued in September, 1924, and may be obtained from the office of the Register either in Baltimore or College Park.

COLLEGE OF ENGINEERING

A. N. JOHNSON, *Dean.*

Whether a man follows engineering as his life's work or enters other fields it is well recognized that the training received in the engineering colleges of today affords a splendid preparation that fits him for many callings in public and private life outside of the engineering profession.

The College of Engineering, which includes the Departments of Civil, Electrical, and Mechanical Engineering, has been reorganized. The general purpose has been to broaden the courses of instruction the better to prepare young men to enter the public service. The large public works program contemplated in practically every State in the Union makes urgent the demand for engineers trained for such work. The public service demands the electrical and mechanical as well as the civil engineer. Maryland needs such men to carry on her great highway work and large public undertakings contemplated in various cities and counties. Such training seems pre-eminently a function of the State's University.

The subject matter of the courses is not essentially different from that usually given, but the viewpoint of the student and the application of the principles are those of public service. In order to give the time necessary both to the technical subjects and to those of a more general character, a careful revision of all courses of study was made so that the time available in each semester may be used to the best advantage.

Beginning with the college year of 1921, the curriculum was arranged so as to prescribe the same courses of study for all freshmen and all sophomores, respectively, in the Engineering College. Among other advantages that accrue from such a change, is the very important one that a young man will not be called upon to decide the branch of engineering in which he will specialize until his junior year.

These changes necessitate a somewhat greater amount of preparation than formerly prescribed, and the hearty and sympathetic co-operation of the high schools of the State is asked that Maryland boys may be even better prepared for their university work to the end that they may be well qualified to enter on their life's work with the best possible university training.

Engineering research is recognized today as one of the most needed useful contributions that the engineering college can make to the State. Work of this character is under way at the University of Maryland, where, through co-operation with the Maryland State Roads Commission and the U. S. Bureau of Public Roads, highway research problems are being studied, the solution of which will prove of utmost value to the people of the State. It is planned to develop as rapidly as possible this phase of the work which will have, aside from its great economic value to the State, an important educational value due to the close contact the students will have with the live engineering problems of today.

Admission Requirements

The requirements for admission to the College of Engineering are, in general, the same as elsewhere described for admission to the undergraduate departments of the University, except as to the requirements in mathematics. See Section I, "Entrance."

Bachelor Degrees in Engineering

Courses leading to the degree of Bachelor of Science are offered in Civil, Electrical and Mechanical Engineering, respectively.

Master of Science in Engineering

The degree of Master of Science in Engineering is given to those students registered in the Graduate School, who hold bachelor degrees in engineering, prerequisite for which requires a similar amount of preparation and work as required for bachelor degrees in the Engineering College of the University of Maryland.

Candidates for the degree of Master of Science in Engineering are accepted in accordance with the procedure and requirements of the Graduate School, as will be found explained in the catalogue under the head of Graduate School.

Professional Degrees in Engineering

The degrees of Civil Engineer, Electrical Engineer or Mechanical Engineer will be granted only to graduates of the University who have obtained a bachelor's degree in engineering. The applicant must satisfy the following conditions:

1. He shall have engaged successfully in acceptable engineering work for three years.
2. His registration for a degree must be approved at least twelve months prior to the date at which the degree is sought. He shall present with his application a complete report of his engineering experience and an outline of his proposed thesis.
3. He shall present a satisfactory thesis on an approved subject.
4. He must be considered eligible by a committee composed of the Dean of the College of Engineering and the heads of the Departments of Civil, Electrical and Mechanical Engineering.

Equipment

The Engineering building is provided with lecture-rooms, recitation-rooms, drafting-rooms, laboratories and shops for all phases of engineering work.

Drafting-Rooms—The drafting-rooms are equipped for practical work. Engineering students must provide themselves with an approved drawing outfit, material and books, the cost of which during the freshman year amounts to about \$40.00.

Electrical Engineering Laboratory—The equipment includes many of the various types of direct current and alternating current generators and motors, rotary converter, distribution transformers, control apparatus and the measuring instruments essential to practical electrical testing. For experimental work, electrical power is obtained from engine-driven units and a turbine generator; a storage battery is used for constant voltage-testing purposes.

Instruments are available for measuring the candle power of lamps and for the determination of illumination intensities. The standardizing laboratory apparatus includes primary and secondary standards used in calibrating laboratory instruments.

The telephone laboratory is equipped with apparatus for experimental work on magneto and common battery systems. The radio apparatus is limited, at present, to receiving sets.

Mechanical Engineering Laboratory—The apparatus consists of Corliss and plain slide valve engines, steam turbine set, fans, pumps, indicators, gauges, feed water heaters, tachometers, injectors, flow meters, apparatus for determination of the B. T. U. in coal, gas and liquid fuels, pyrometers, draft gauges, planimeters, thermometers and other necessary apparatus and equipment for a mechanical laboratory.

Materials Laboratory—Apparatus and equipment are provided for making standard tests on various construction materials as steel, concrete, timber and brick.

Equipment includes two 100,000-pound universal testing machines, cement-testing apparatus, extensometer and micrometer gauges, and other special devices for ascertaining the elastic properties of different materials.

Special apparatus which has been designed and made in the shops of the University is also made available for student work.

Highway Research Laboratory—Certain problems in highway research have been undertaken and are actively under way, being carried on in co-operation with the State Roads Commission and the U. S. Bureau of Public Roads.

A study of the traffic over the Maryland State Highway system is in progress and a preliminary traffic map has already been prepared.

A special investigation into the elastic properties of concrete is well under way, this work directly co-ordinating with the general program of research problems undertaken by the U. S. Bureau of Public Roads. In connection with this study, there have been taken over sixteen hundred samples in the past two summers from the concrete roads of the State, these samples consisting of cores which were cut from the road by a special core drill apparatus mounted upon a specially equipped truck. The results that have been obtained from the testing of these concrete cores will be studied in connection with the laboratory investigations

which are being made upon the fatigue of concrete. The fatigue of concrete is being studied by means of a specially devised machine which was designed and built at the University laboratory.

Machine Shops and Foundry—The machine shops and foundry are well lighted and fully equipped. Shops for wood working, metal, forge and foundry practice are provided for engineering students.

The wood-working shop has full equipment of hand and power machinery.

The machine shops are equipped with various types of lathes, planers, milling machines and drill presses.

The foundry is provided with an iron cupola, a brass furnace and coke oven.

The shop equipment not only furnishes practice, drill and instruction for students, but makes possible the complete production of special apparatus for conducting experimental and research work in engineering.

Surveying Equipment—Surveying equipment for plane, topographic and geodetic surveying is provided properly to equip several field parties. A wide variety of types of instruments is provided, including domestic as well as foreign makes.

Special Models and Specimens—A number of models illustrating various types of highway construction and highway bridges are available for students in this branch of engineering.

There has also been collected a wide variety of specimens of the more common minerals and rocks from various sections of the country, particularly from Maryland.

Library

Each department contains a well-selected library for reference and the standard engineering magazines.

The class work, particularly in the higher courses, requires that the students consult special books of reference and current technical literature.

Curricula

The normal curriculum of each department is outlined on the following pages. Students are also expected to attend and take part in the meetings of the Engineering Society, Seminar, and engineering lectures.

All members of the freshman engineering class are required to attend a series of twenty to twenty-five lectures a year, the speakers, for the most part, being other than engineers. Each student is required to hand in a very brief written summary of each lecture.

In addition to the requirements of the regular curricula, all students in the Engineering College are required, during each of the three summer vacations, to obtain employment in some line of commercial work, preferably that which relates to engineering. Unless the student can offer

some adequate reason why he has not been so employed during at least two months of each of his summer vacation periods, it may be considered sufficient cause for withholding his degree.

The proximity of the University to Baltimore and Washington, and to other places where there are great industrial enterprises, offers an excellent opportunity for engineering students to observe what is being done in their chosen field. An instructor accompanies students on all trips of inspection.

The same program is required of all students in engineering in the Freshman and Sophomore years.

	Semester	
	I	II
<i>Freshman Year</i>		
Composition and Rhetoric (Eng. 1)-----	3	3
Elements of Social Science (Soc. Sci. 1)-----	3	3
Oral English (P. S. 1)-----	1	1
Freshman Mathematics (Math. 3)-----	5	5
General Chemistry (Chem. 1)-----	4	4
Engineering Drafting (Dr. 1)-----	1	1
Shop and Forge Practice (Shop 1)-----	1	1
Basic R. O. T. C. (M. I. 1)-----	1	1
Engineering Lectures -----	--	--
	<i>Semester</i>	
	I	II
<i>Sophomore Year</i>		
Oral English (Pub. Sp. 3-4)-----	1	1
*Modern Language (Adv. Course)-----	3	3
*Modern and Contemporary History (Hist. 1-2)-----	3	3
Sophomore Mathematics (Math. 6)-----	5	5
Physics (Phys. 2)-----	5	5
Descriptive Geometry (Dr. 2)-----	2	2
Machine Shop Practice (Shop 2-3) M. & E.-----	1	2
Civil-----	1	--
Basic R. O. T. C. (M. I. 2)-----	2	2
Plane Surveying (Surv. 1-2) M. & E.-----	1	--
Civil-----	1	2
Engineering Lectures -----	--	--

* Alternatives.

CIVIL ENGINEERING

	Semester	
	I	II
<i>Junior Year</i>		
*Political Economy (Econ. 8)-----	3	3
*Oral English (Pub. Sp. 3)-----	1	1
*Engineering Geology (Engr. 2)-----	1	1
*Engineering Mechanics (Mech. 1)-----	4	4

* Required of all engineering students.

*Prime Movers (Engr. 1)-----	3	2
Design Steel Structures, Elements (C. E. 102)-----	--	5
*Materials of Engineering (Mech. 2)-----	--	2
Advanced Surveying (Surv. 3)-----	3	--
Railroad, Elements of (C. E. 101)-----	3	--
Engineering Lectures -----	--	--

<i>Senior Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
*Oral English (Pub. Sp. 9 and 10)-----	1	1	
*Engineering Jurisprudence (Engr. 101)-----	1	--	
*Public Utilities (Engr. 3)-----	--	1	
*Engineering Chemistry (Chem. 27)-----	1	1	
Highways (C. E. 106)-----	4	4	
Design-Masonry Structures (C. E. 105)-----	4	4	
Design-Steel Structures (C. E. 104)-----	3	3	
Sanitation (C. E. 107)-----	3	3	
†Railroads (C. E. 108)-----	1	1	
†Sanitary Science (Public Health) (C. E. 109)-----	1	1	
†Drainage and Irrigation (C. E. 110)-----	1	1	
Engineering Lectures -----	--	--	

ELECTRICAL ENGINEERING

<i>Junior Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
*Political Economy (Econ. 8)-----	3	3	
*Oral English (Pub. Sp. 3)-----	1	1	
*Engineering Geology (Engr. 2)-----	1	1	
*Engineering Mechanics (Mech. 1)-----	4	4	
*Materials of Engineering (Mech. 2)-----	--	2	
Design-Machine, Elements (M. E. 101)-----	1	--	
Direct Currents (E. E. 101)-----	5	5	
*Prime Movers (Engr. 1)-----	3	2	
Engineering Lectures -----	--	--	

<i>Senior Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
*Oral English (Pub. Sp. 9 and 10)-----	1	1	
*Engineering Jurisprudence (Engr. 101)-----	1	--	
*Public Utilities (Engr. 3)-----	--	1	
*Engineering Chemistry (Chem. 27)-----	1	1	
Alternating Currents (E. E. 102)-----	5	5	
Design-Electric Machine (E. E. 103)-----	1	2	

* Required of all engineering students.

† Alternatives.

Junior and senior engineers with requisite standing may elect extra hours not to exceed three hours per semester.

†Electric Railways and Electric Power Transmission (E. E. 104)-----	3	4
†Telephones and Telegraphs (E. E. 105)-----	3	4
†Radio Telephony and Telegraphy (E. E. 106)-----	3	4
†Illumination (E. E. 107)-----	3	4
Thermodynamics (Mech. 101)-----	3	--
Engineering Lectures -----	--	--

MECHANICAL ENGINEERING

<i>Junior Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
*Political Economy (Econ. 8)-----	3	3	
*Oral English (Pub. Sp. 3)-----	1	1	
*Engineering Geology (Engr. 2)-----	1	1	
*Engineering Mechanics (Mech. 1)-----	4	4	
*Materials of Engineering (Mech. 2)-----	--	2	
Foundry Practice (Shop 4)-----	1	--	
Design-Machine, Elements (M. E. 102)-----	--	3	
*Prime Movers (Engr. 1)-----	3	2	
Kinematics (Mech. 3)-----	3	--	
Design-Steel Structures (C. E. 103)-----	2	2	
Engineering Lectures -----	--	--	

<i>Senior Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
*Oral English (Pub. Sp. 9 and 10)-----	1	1	
*Engineering Jurisprudence (Engr. 101)-----	1	--	
*Public Utilities (Engr. 3)-----	--	1	
*Engineering Chemistry (Chem. 27)-----	1	1	
Design-Prime Movers (M. E. 103)-----	3	3	
Design-Power Plants (M. E. 104)-----	--	3	
Design-Pumping Machinery (M. E. 105)-----	3	--	
Thermodynamics (Mech. 102)-----	3	3	
Sanitation (C. E. 106)-----	3	3	
Engineering Finance (M. E. 106)-----	--	2	
Mechanical Laboratory (M. E. 107)-----	1	1	
Heating and Ventilation (M. E. 108)-----	2	--	
Engineering Lectures -----	--	--	

* Required of all engineering students.

† Select two.

Junior and senior engineers with requisite standing may elect extra hours not to exceed three hours per semester.

COLLEGE OF HOME ECONOMICS

M. MARIE MOUNT, *Dean.*

The home economics subjects are planned to meet the needs of the following classes of students: (1) those who desire a general knowledge of the facts and principles of Home Economics without specializing in any one phase of Home Economics; (2) those students who wish to teach Home Economics in schools or to become Extension Specialists in Home Economics with the intention of becoming dietitians, restaurant and cafeteria managers, textile specialists, clothing designers, buyers of clothing in department stores, demonstrators for commercial firms and other similar positions.

Departments

For administrative purposes the College of Home Economics is organized into the Departments of Foods and Nutrition, Textiles and Clothing and Home and Institutional Management.

Equipment

In addition to the usual classroom and laboratory facilities, the college maintains a well-equipped practice house in which the students will keep house for a period of six to eight weeks during either their junior or senior year.

Degree

The degree of Bachelor of Science is conferred for the satisfactory completion of four years of prescribed courses, of 132 semester hours.

In accordance with the University policy, not less than three-fourths of the credits for graduation must be earned with grades of A., B. or C.

Prescribed Curricula

All students registered in the College of Home Economics are required to take the same work during the first two years. At the beginning of the junior year a student may continue with the General Home Economics Curriculum, or elect one of the following special curricula, or a combination of curricula. A student who wishes to teach Home Economics may register in Home Economics Education, in the College of Education (see Home Economics Education) at the beginning of the Junior Year.

Following are the outlines of the curricula for General Home Economics, Textiles and Clothing, Foods, Home Economics Extension and Institutional Management.

GENERAL HOME ECONOMICS

	Semester	
	I	II
<i>Freshman Year</i>		
Composition and Rhetoric (Eng. 1)-----	3	3
General Chemistry (Chem. 1)-----	4	4
†Language (Language 1)-----	4	4
Physical Education (Phys. Ed. 1)-----	1	1
Library Methods (L. S. 1)-----	1	--
Elements of Social Science (Soc. Sci. 1)-----	3	3
Educational Guidance (Ed. 1)-----	1	1
Total -----	17	16
	<i>Semester</i>	
	I	II
<i>Sophomore Year</i>		
Chemistry of Foods (Chem. 13)-----	4	--
General Zoology (Zool. 1)-----	--	4
Elementary Foods (H. E. 1)-----	3	3
Composition and Design (H. E. 4)-----	3	--
Costume Design (H. E. 7)-----	--	3
Textiles (H. E. 2-3)-----	2	1
Language (Language 2)-----	3	3
Public Education in the United States (Ed. 1)-----	2	--
Educational Hygiene (Ed. 2)-----	--	2
Physical Education (Phys. Ed. 2)-----	2	2
Total -----	19	18
	<i>Semester</i>	
	I	II
<i>Junior Year</i>		
Household Bacteriology (Bact. 3)-----	--	3
Special Application of Physics (Physics 1)-----	--	4
Nutrition (H. E. 100-101)-----	3	3
Marketing and Buying (H. E. 104)-----	3	--
Home Management and Mechanics of the Household (H. E. 105)-----	3	--
Practice House (H. E. 106) Juniors and Seniors-----	--	3
Pattern Designing and Dressmaking (H. E. 110)-----	3	3
*Electives -----	3	--
Total -----	15	16
	<i>Semester</i>	
	I	II
<i>Senior Year</i>		
Home Architecture and Interior Decoration (H. E. 113)-----	3	--
Child Care and Welfare (H. E. Ed. 102)-----	3	--
*Electives -----	10	15
Total -----	16	15

* Electives may be chosen from any of the courses offered by the University for which the student has the necessary prerequisites.

† This requirement may be waived for students entering college with three or more years of a language.

FOODS CURRICULUM

<i>Junior Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
Household Bacteriology (Bact. 3)	-----	--	3
Special Application of Physics (Physics 1)	-----	--	4
Nutrition (H. E. 100-101)	-----	3	3
Marketing and Buying (H. E. 104)	-----	3	--
Home Management and Mechanics of the Household (H. E. 105)	-----	3	--
Practice House (H. E. 106) Juniors and Seniors	-----	--	3
Electives	-----	6	2
Total	-----	15	15

<i>Senior Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
Home Architecture and Interior Decoration (H. E. 113)	-----	3	--
Child Care and Welfare (H. E. Ed. 102)	-----	3	--
Preservation and Demonstration (H. E. 102)	-----	3	--
Advanced Foods (H. E. 103)	-----	--	3
Electives	-----	7	13
Total	-----	16	16

TEXTILE AND CLOTHING CURRICULUM

<i>Junior Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
Household Bacteriology (Bact. 3)	-----	--	3
Special Application of Physics (Physics 1)	-----	--	4
Nutrition (H. E. 100)	-----	3	--
Marketing and Buying (H. E. 104)	-----	3	--
Home Management and Mechanics of the Household (H. E. 105)	-----	3	--
Practice House (H. E. 106) Junior and Seniors	-----	--	3
Pattern Designing and Dressmaking (H. E. 110)	-----	3	3
Electives	-----	3	3
Total	-----	15	16

<i>Senior Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
Home Architecture and Interior Decoration (H. E. 113)	-----	3	--
Chemistry of Textiles (Chem. 14)	-----	--	3
Advanced Clothing (H. E. 111)	-----	2	--
Art and Handicraft (H. E. 114-115)	-----	--	2
Millinery (H. E. 112)	-----	2	--
Electives	-----	9	10
Total	-----	16	15

INSTITUTIONAL MANAGEMENT CURRICULUM

<i>Junior Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
Household Bacteriology (Bact. 3)	-----	--	3
Special Application of Physics (Physics 1)	-----	--	4
Nutrition (H. E. 100-101)	-----	3	3
Marketing and Buying (H. E. 104)	-----	3	--
Home Management and Mechanics of the Household (H. E. 105)	-----	3	--
Practice House (H. E. 106)	-----	--	3
Institutional Management (H. E. 107)	-----	3	3
Electives	-----	3	--
Total	-----	15	16

<i>Senior Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
Home Architecture and Interior Decoration (H. E. 113)	-----	3	--
Child Care and Welfare (H. E. Ed. 102)	-----	3	--
Advanced Foods (H. E. 103)	-----	--	3
Advanced Institutional Management (H. E. 108-109)	-----	3	3
Electives	-----	7	9
Total	-----	16	15

HOME ECONOMICS EXTENSION CURRICULUM

<i>Junior Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
Nutrition (H. E. 100-101)	-----	3	--
Marketing and Buying (H. E. 104)	-----	3	--
Home Management and Mechanics of the Household (H. E. 105)	-----	3	--
Practice House (H. E. 106) Juniors and Seniors	-----	--	3
Household Bacteriology (Bact. 3)	-----	--	3
Special Application of Physics (Physics 1)	-----	--	4
Educational Psychology (Ed. 103)	-----	3	--
Technique of Teaching (Ed. 104)	-----	--	3
Electives	-----	3	3
Total	-----	15	16

<i>Senior Year</i>		<i>Semester</i>	
		<i>I</i>	<i>II</i>
Home Architecture and Interior Decoration (H. E. 113)	-----	3	--
Child Care and Welfare (H. E. Ed. 102)	-----	3	--
Preservation and Demonstration (H. E. 102)	-----	3	--
Educational Leadership in Rural Communities (Ag. Ed. 102)	-----	--	3
Objectives and Methods in Extension Education	-----	--	3
Electives	-----	6	10
Total	-----	15	16

The following subjects are suggested as electives in the Home Economics Extension Curriculum:

	Semester	
	I	II
Household Botany -----	3	--
Gardening (Vegetable, Fruit and Landscape)-----	--	3
(One or more units, one credit each may be elected.)		
Poultry -----	--	1
Dairying -----	--	1
Economics -----	3	--
Sociology -----	3	--
Pattern Designing and Dressmaking (H. E. 110)-----	3	3
Advanced Clothing (H. E. 111)-----	2	--
Advanced Foods (H. E. 103)-----	--	3
Public Speaking (P. S. 109)-----	1	1

THE GRADUATE SCHOOL

C. O. APPLEMAN, *Dean*.

Graduate work is offered, under the supervision of the Dean of the Graduate School, by competent members of the various faculties of instruction and research. These constitute the faculty of the Graduate School.

The general administrative functions of the faculty are delegated to the Dean and Secretary of the School and a Graduate Council.

Work in accredited research laboratories of the U. S. Department of Agriculture and other local national research agencies may be accepted, when previously arranged, as work in residence for part of the requirement. These laboratories are located in easy reach of the University.

Admission to Graduate School

Graduates of colleges and universities of good standing are admitted to the Graduate School. Before entering upon graduate work all applicants must present evidence that they are qualified by their previous work to pursue with profit the graduate courses desired. Application blanks for admission to the Graduate School are obtained from the office of the Dean. After approval of the application, a matriculation card, signed by the Dean, is issued to the student. This card permits the student to register in the Graduate School. After payment of the fees the matriculation card is stamped and returned to the student. It is the student's certificate of membership in the Graduate School and may be called for at any succeeding registration.

All applicants for graduate study in the University must matriculate in the Graduate School even though they are not candidates for higher degrees. This includes the members of the summer session.

Admission to the Graduate School does not necessarily imply admission to candidacy for an advanced degree.

Registration

All students pursuing graduate work in the University, even though they are not candidates for higher degrees, are required to register in the office of the Dean of the Graduate School at the beginning of each semester. Students taking graduate work in the summer school are also required to register in the Graduate School at the beginning of each session. The program of work for the semester or summer session is entered upon three course cards which are first signed by the professor in charge of the student's major subject and then by the Dean of the Graduate School. Two cards are retained in the office of the Graduate School. One

is filed for record and the other returned to the professor in charge of the student's major subject. The student takes the third card and, in case of new students, also the matriculation card, to the Registrar's office, where a charge slip for the fee is issued. The charge slip, together with the course card, are presented at the office of the Financial Secretary for adjustment of fees. After certification by the Financial Secretary, class cards are issued by the Registrar. Students will not be admitted to graduate courses without class cards. Course cards may be obtained at the Registrar's office or from the secretary in the Dean's office. The heads of departments usually keep a supply of these cards in their office.

Credits

Classification in courses carrying full graduate credit is ordinarily limited to a maximum of thirty credit hours for the year. Exceptions to this rule must have the approval of the Dean and will only be allowed when the student has made a grade of "B" or better in all of the courses of the previous semester. No exception to the rule will be made in case of students holding \$500 fellowships on a nine months basis. On the recommendation of the student's adviser, these fellows may carry more than fifteen credits for one semester of the year, if the normal load for the other semester is correspondingly reduced. Students holding graduate assistantships are usually limited to eight credit hours per semester. One or two extra credits may be allowed if four or five of the total constitute Seminar and Research work.

Admission to Candidacy for Advanced Degrees

Applications for admission to candidacy for either the Master's or the Doctor's degrees are made on application blanks, which are obtained at the office of the Dean of the Graduate School. These are filled out in duplicate and first approved by the professor in charge of the major subject, after consultation with the professors in charge of the minor subjects, before they are acted upon by the Graduate Council. An official transcript of the student's undergraduate record and a statement of the graduate courses which the student has completed at other institutions must accompany the applications unless these are already on file in the Dean's office. This statement must be issued by the Dean, Registrar, or other officer of the Graduate School in which the work was done.

A student making application for admission to candidacy for the degree of Doctor of Philosophy must also obtain from the head of the Modern Language department, a statement that he possesses a reading knowledge of French and German.

The subject of the Master's thesis or the Doctor's dissertation must appear on the application.

Each candidate for the Master's degree is required to make application for admission to candidacy not later than the first week of the second semester of the academic year in which the degree is sought, but not until at least the equivalent of one semester's work has been completed.

Candidates for the Doctor's degree must be admitted to candidacy not later than one academic year prior to the granting of the degree. Applications of these candidates must be on file in the office of the Graduate School not later than October 1 of the same year.

The admission of a student to candidacy in no case assures the candidate of a degree, but merely indicates that he has fulfilled all of the preliminary requirements and, in the judgment of his professors and the Graduate Council, possesses the ability to continue the type of work required for the degree sought.

Requirements for the Master's Degree

The degree of Master of Science, Master of Arts or Master of Science in Engineering, will be conferred upon resident graduates who meet the following requirements:

1. The prospective candidate is required to make application for admission to candidacy as prescribed under that heading.

2. The candidate must have received the Bachelor's degree from a college or university of sufficiently high standing and must have the necessary prerequisites for the field of advanced work chosen.

3. During a period of at least one academic year, the student must pursue a course of approved graduate study. Such a course is equivalent to 30 semester credits, including a thesis approved by a committee of the faculty. From 10 to 12 credits must lie outside the major subject and form a coherent group of courses intended to supplement and support the major work. At least 18 credits, including the thesis credits, must be devoted to the major subject. The number of major credits allowed for thesis work will range from 6 to 10, depending upon the amount of work done and upon the course requirements in the major subject. The maximum credit for the one hour per week seminar courses is limited to four semester hours in the major subject and to two semester hours in the minor subjects. Graduate students must elect courses designated in the catalogue "For Graduates" or "For Advanced Undergraduates and Graduates." In special cases a student may, with the approval of the professor in charge of the major subject and the Dean, elect for graduate credit one or two courses not listed for graduates. For such courses, only partial graduate credit will be allowed or extra work will be required for full graduate credit.

4. The thesis required for the Master's degree should be typewritten on a good quality of paper 11 x 8½ inches in size and one copy bound in a special cover, obtained at the book store. This copy must be filed in the office of the Graduate School not later than two weeks before commencement.

5. The candidate must pass a final oral examination on all graduate work, including the thesis.

Doctor of Philosophy

1. As prerequisites for admission to candidacy for the Doctor's degree the candidate must be a graduate of a standard college, must have a reading knowledge of French and German, and the necessary basic training in the chosen field for advanced work.

2. Three years of graduate study will usually be required. The first two of these years may be spent in other institutions offering standard graduate work. On a part-time basis the time needed will be correspondingly increased. The degree is not given merely as a certificate of residence and work, but is granted only upon sufficient evidence of high attainments in scholarship and ability to carry on independent research in the special field in which the major work is done.

3. The candidate must select a major and one or two closely related minor subjects, constituting a single field of research.

4. The candidate must present a dissertation within the field of research selected. This must be in the hands of the Dean of the Graduate School in printed or typewritten form at least two weeks before the time at which degrees are granted.

5. The candidate must pass a final oral examination in the major and minor subjects. The examination will be given by a committee appointed by the Dean.

Advanced Professional Degrees in Engineering

The degrees of Civil Engineer, Electrical Engineer or Mechanical Engineer will be granted only to graduates of this University who have obtained a Bachelor's degree in engineering. The applicant must satisfy the following conditions:

1. He shall have been engaged successfully in acceptable engineering work for three years.

2. His registration for a degree must be approved at least 12 months prior to the date at which the degree is sought. He shall present with his application a complete report of his engineering experience and an outline of his proposed thesis.

3. He shall present a satisfactory thesis on an approved subject.

4. He must be considered eligible by a committee composed of the Dean of the College of Engineering and the heads of the Departments of Civil, Electrical and Mechanical Engineering.

Graduate Fees

Each graduate student is subject to a matriculation fee of \$10.00, a fixed charge of \$1.50 per semester credit and a diploma fee of \$10.00.

Graduate Work in the Summer

Work done in the Summer Session of the University under the rules and regulations of the Graduate School may be counted as residence toward a graduate degree.

Students taking their major work in the field of Education may satisfy the requirements for the Master's degree by attending the Summer School for four summers and submitting a satisfactory thesis.

Fellowships and Graduate Assistantships

A number of fellowships and graduate assistantships have been established by the University. They are open to graduates of standard colleges and universities. All applications for both fellowships and graduate assistantships should be filed with the Dean of the Graduate School not later than May 15 of each year. Blanks for this purpose may be obtained from the office of the Graduate School. Applications must be accompanied by sufficient evidence of necessary training and ability to pursue with profit the graduate work desired. Such evidence will include testimonials from instructors and an official transcript of the undergraduate work.

The fellowships are worth \$500, and it is possible for a fellow to complete the requirements for the Master's degree in one academic year. In certain cases fellows may be required to spend two or three summer months in addition to the nine months of the college year. Each fellow is expected to give a limited portion of his time to instruction or perform equivalent prescribed duties for his major department.

The stipend attached to the graduate assistantships is \$1,000 per annum and the appointments are made for twelve months, with one month's vacation. The minimum time required for the Master's degree is two years, since one-half of the assistant's time is devoted to instruction or research. Several \$1,000 research assistantships are offered by the Experiment Station and the service required is in connection with research projects. Graduate students holding appointments as fellows or graduate assistants are exempt from all fees except the diploma fee and laboratory fees in certain minor courses.

SUMMER SCHOOL

WILLARD S. SMALL, *Director.*

A summer session of six weeks is conducted at College Park. The program is designed to serve the needs of three classes of students; teachers and supervisors of the several classes of school work—elementary, secondary and vocational; special students, as farmers, breeders, dairymen, home makers, chemists, public speakers, graduate students; and students who are candidates for degrees in agriculture, arts and science, education, engineering and home economics.

Terms of Admission

Teachers and special students not seeking a degree are admitted without examination to the courses of the summer session for which they are qualified. All such selection of courses must be approved by the Director of the Summer School.

The admission requirements for those who desire to become candidates for degrees are the same as for any other session of the University. Before registering, a candidate for a degree will be required to consult the Dean of the College or School in which he wishes to secure the degree.

Credits and Certificates

The semester hour is the unit of credit as in other sessions of the University. During the summer session a lecture course meeting five times a week for six weeks requiring the standard amount of outside work, is given a weight of two semester hours.

Educational courses satisfactorily completed will be credited by the State Superintendent of Schools towards meeting the minimum requirements of professional preparation as follows:

- (1) For teaching in the elementary schools of the State, including renewal of certificates and advancing the grade of certificates.
- (2) For teaching in high schools of the State and for renewal of high school certificates.
- (3) For teaching vocational agricultural and home economics and for renewal of vocational teachers' certificates.
- (4) For high school principalships.
- (5) For supervisorships.

Summer Graduate Work

Special arrangements have been made for persons wishing to do graduate work in summer. Teachers and other graduate students working for a degree on the summer plan must meet the same requirements and proceed in the same way as do students enrolled in the other sessions of the University.

For detailed information in regard to the Summer Session consult the special Summer School announcement issued annually in April.

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

GEORGE T. EVERETT, *Major U. S. Army, Professor.*

RESERVE OFFICERS' TRAINING CORPS

The work in this department is based upon the provisions of Army Regulations No. 145-10, War Department.

Authorization

An infantry unit of the Senior Division of the Reserve Officers' Training Corps was established at the University under the provisions of the Act of Congress of June 3, 1916, as amended.

Object

The primary object of the Reserve Officers' Training Corps is to provide systematic military training at civil educational institutions for the purpose of qualifying selected students of such institutions as reserve officers in the military forces of the United States. It is intended to attain this object during the time the students are pursuing their general or professional studies with the least practical interference with their civil careers, by employing methods designed to fit men, physically, mentally and morally for pursuits of peace as well as pursuits of war. It is believed that such military training will aid greatly in the development of better citizens.

Required to Take Instruction

All male students, if citizens of the United States, whose bodily condition indicates that they are physically fit to perform military duty or will be upon arrival at military age, whether pursuing a four-year or a two-year course of study, are required to take for a period of two years, as a prerequisite to graduation, the military training required by the War Department.

All male students, if citizens of the United States, whose bodily condition indicates that they are not physically fit to perform military duty and will not be upon arrival at military age, whether pursuing a four-year or a two-year course of study, are required to take for a period of two years, as a prerequisite to graduation, the equivalent of the military training required by the War Department, substituting for that part of the training which might be physically harmful, such military instruction as the P. M. S. & T. in consultation with the University Physician may determine as advisable and expedient.

Advanced Work

Students who complete the basic course satisfactorily and who are recommended by the Professor of Military Science and Tactics, and whose application is approved by the President, may continue their military training for a period of two years in the Advanced Course.

Time Allotted

For first and second year, basic course, three periods a week of not less than one hour each are devoted to this work, of which at least one hour is utilized for theoretical instruction.

For third and fourth years, advanced courses, elective, five periods a week of not less than one hour each are devoted to this work, of which at least three periods are utilized for theoretical instruction.

Physical Training

Physical training forms an important part in military instruction, and it is the policy of the Military Department to encourage and support the physical training given by civilian teachers, thus co-operating in an effort to promote a vigorous manhood. Special effort is made by corrective training to improve the physical condition of students needing such training.

Physical Examination

All members of the Reserve Officers' Training Corps are required to be examined physically at least once after entering the University.

Uniforms

Members of the Reserve Officers' Training Corps must appear in proper uniforms at all military formations and at other specified times.

Uniforms, or commutation in lieu of uniforms for the Reserve Officers' Training Corps, will be furnished free by the Government. The uniforms are the regulation uniforms of the United States Army, with certain distinguishing features, or if commutation of uniforms is furnished, then such uniform as may be adopted by the University. Such uniforms must be kept in good condition by the student. They are the property of the Government and, though intended primarily for use in connection with military instruction, may be worn at any other time unless the regulations governing their use are violated. The uniform cannot be worn in part. Uniforms which are furnished by the Government will be returned to the Military Department at the end of the year or before, if the student leaves the University. In case commutation of uniforms is furnished, the uniform becomes the property of the students upon completion of two years' work.

Commutation

Those students who elect the advanced course and who have signed the contract with the Government to continue in the Reserve Officers' Training Corps for the two remaining years of the advanced course are entitled to commutation of subsistence from and including the date of contract until they complete the course at the institution.

Summer Camps

An important and excellent feature of the Reserve Officers' Training Corps is the summer camp. In specially selected parts of the country camps are held for a period not exceeding six weeks for students who are members of the Reserve Officers' Training Corps. These camps are under the strict supervision of army officers and are intended primarily to give a thorough and comprehensive practical course of instruction in the different arms of the service.

Parents may feel assured that their sons are carefully watched and safeguarded. Wholesome surroundings and associates, work and healthy recreation are the keynote to contentment. Social life is not neglected and the morale branch exercises strict censorship over all social functions.

The attendance at summer camps is compulsory only for those students who are taking the advanced course. The War Department recommends that as many basic students as possible attend the summer camps.

The students who attend the summer camps are under no expense. The Government furnishes transportation from the institution to the camp and from the camp to the institution, or to the student's home, unless the mileage is greater than that from the camp to the institution. In this case, the amount of mileage from the camp to the institution is allowed the student. Quarters and food are furnished. The Advanced Course men, in addition to receiving quarters and food, are paid seventy cents (\$0.70) for each day spent in camp.

Commissions

(a) Each year upon completion of the Advanced Course, students qualified for commissions in the Reserve Officers' Corps will be selected by the head of the institution and the professor of Military Science and Tactics.

(b) The number to be selected from each institution and for each arm of the service will be determined by the War Department.

Credits

Military instruction at this University is on a par with other university work and the requirements of this department as to proficiency the same as with other departments.

Those students who have received military training at any educational institution under the direction of an army officer detailed as professor of military science and tactics may receive such credit as the professor of military science and tactics and the President may jointly determine.

DEPARTMENT OF PHYSICAL EDUCATION AND RECREATION

The Department of Physical Education and Recreation, in co-operation with the Military Department, controls all physical training and intramural and intercollegiate athletics. As far as possible the work along all these lines is co-ordinated with a view to having each student in the institution engage in some form of exercise best suited to his particular case.

The work at present reaches all students either through the military exercises, through intramural sports, through intercollegiate athletics, or through the special work given to those not particularly fitted for any of these forms. At the beginning of the year a physical examination is given the students, especial attention being paid to the members of the freshman class. All members of the freshman and sophomore classes who are physically sound take part in the military drills and exercises. To meet the particular needs of freshmen and sophomores who do not qualify physically for military training, special programs of setting-up exercises and drills are devised.

Physical Education beyond the freshman and sophomore classes is not compulsory, but the military work is continued by many. Those who do not engage in it are offered opportunity to play tennis, engage in intramural games, or take part in some other form of competitive sport. All students have opportunities to become members of the squads playing in intercollegiate athletics. With the exception possibly of a few members of the junior and senior classes, the University is reaching all its students with some form of developmental physical exercise. A modern gymnasium, two athletic fields, and tennis courts offer excellent facilities.

SCHOOL OF BUSINESS ADMINISTRATION

The School of Business Administration as a separate unit in the University organization will be discontinued at the end of the academic year 1925-1926. The crowded condition of the University buildings in Baltimore by reason of the increase in the student body in the other professional schools has made it inadvisable to continue the work of this School at this time.

A curriculum in Business Administration is available in the Department of Economics and Business Administration in the College of Arts and Sciences at College Park for students desiring full-time day work, leading to the degree of Bachelor of Science or Bachelor of Arts. (See page 82.)

For evening students in the city of Baltimore arrangements have been made with the Johns Hopkins University whereby matriculated students in the School of Business Administration of the University of Maryland who, by the end of the present academic year (1925-1926) will have completed at least two years of college work, may, by offering the requisite number of points, obtain the degree of Bachelor of Science in Business from the University of Maryland. The additional points required for this purpose may be obtained through the satisfactory completion of courses in the College for Teachers or the Evening Courses in Business Economics of the Johns Hopkins University and certification to the Registrar of the University of Maryland to that effect.

The University of Maryland does not expect, however, to award degrees to any students at present registered in its School of Business Administration who by the end of this academic year will have completed less than two years of college work. For such students the opportunity of obtaining the degree of Bachelor of Science will be available through the College of Teachers of the Johns Hopkins University by meeting the usual requirements of that College for matriculation and completion of courses. It is understood that the preponderance of work will probably be in business subjects. Students in the School of Business Administration who wish to obtain their degrees in this way should present individually their applications for matriculation and advanced standing at the College for Teachers.

The opportunity of obtaining the degree of Bachelor of Science from the Johns Hopkins University through the College for Teachers will likewise be open, upon the same conditions as mentioned in the preceding paragraph, to students who have completed two years' work or more at the University of Maryland. It is expected, however, that such students will do at least their last year's work at the Johns Hopkins University.

Completion of Degree Requirements

Students who have matriculated for the degree of Bachelor of Business Administration prior to September, 1925, and others who have enrolled for the degree of Bachelor of Science in Business since September, 1925, and prior to June, 1926, and who will have completed at least two years or 62 semester hours of college work by June, 1926 will have until June, 1929, to complete the requirements of the above degrees. Students expecting to complete the requirements in the Johns Hopkins classes and to apply credit thus obtained to a University of Maryland degree must do so prior to that date. All such students must register such intention prior to May 1, 1926, with the Dean of the College of Business Administration of the University in order that a program of work to be completed may be worked out and approved at that time. Applications for this privilege will not be considered after the above date.

Correspondence regarding such programs after June 1, 1926, should be addressed to the Executive Dean of the University. When the requirements for the above degrees shall have been completed, all credits toward the same must be duly certified through the Registrar to the Executive Dean of the University for his approval.

SCHOOL OF DENTISTRY

J. BEN ROBINSON, *Dean.*

The University of Maryland was created by an act of the Maryland Legislature, December 18th, 1807, for the purpose of offering a course of instruction in medical science. There were at that period but four medical schools in America—the University of Pennsylvania, founded in 1765; Harvard University, in 1782; Dartmouth College, in 1798, and the College of Physicians and Surgeons of New York, May, 1807.

The first lectures delivered on Dentistry in America were given by Horace H. Hayden, M. D., at the University of Maryland in the year 1837. A movement was started at that time to create a department of dentistry and application was made to the Regents of the University for permission to establish such work in connection with the School of Medicine. This request being refused, a charter was applied for and granted in 1839, establishing the Baltimore College of Dental Surgery, the first dental school in the world. Lectures were begun in 1840, and the first class graduated in 1841. In 1873 the Maryland Dental College, an offspring of the Baltimore College of Dental Surgery, was organized, and continued instruction in dental subjects until 1879, when it was consolidated with the Baltimore College of Dental Surgery.

A department of dentistry was organized at the University of Maryland in the year 1882, graduating its first class in 1883 and each subsequent year to the present. This school was chartered as a corporation and continued as a privately owned and directed institution until 1920, when it became a State institution. The Dental Department of the Baltimore Medical College was established in 1895, continuing until 1913, when it merged with the Dental Department of the University of Maryland.

The final combining of the dental educational interests of Baltimore was effected June 15, 1923, by the amalgamation of the University of Maryland School of Dentistry and the Baltimore College of Dental Surgery, under State supervision and control, becoming a department of the State University of Maryland.

Thus we find in the present Dental School of the University of Maryland a grouping and concentration of the various efforts at dental education in Maryland. From these component elements have radiated developments of the art and science of dentistry until the potential strength of the alumni is second to none either in numbers or degree of service to the profession.

Requirements for Matriculation

The School of Dentistry is a member in good standing of the American Association of Dental Schools and conforms to the rules and regulations of that body.

The present requirement for matriculation in the School of Dentistry is graduation from an accredited high school with fifteen units of credit. This requirement will admit students to the five-year course in dentistry, now being required. The many apparent advantages in the consecutive five years of professional study over the one year of college work and four years of dentistry or two years of college work and three years of dentistry, offered by most dental schools, has influenced the adoption of the five-year plan.

Applicants for matriculation must present their credentials for verification to the Registrar of the University of Maryland, Baltimore, Maryland. A blank form for submitting credentials may be had by applying to the Dean of the Dental School. The blank must be filled out in full as indicated by various items of the form, signed by the prospective dental student and returned to the Registrar's office with \$2.00 investigation fee.

Advanced Standing

Applicants showing in addition to high school requirements, college credits of equal value in courses contained in the dental curriculum may receive advanced credits on those subjects. Thirty semester hours of college credit entitles the applicant to second-year rating, with the opportunity to complete the course in four years, provided his college record shows the following to the credit of the applicant:

Inorganic Chemistry	8 hours
Zoology	8 hours
Mathematics	6 hours
English	6 hours

Graduates from reputable and accredited colleges and universities, or at least two years completed work from Class A medical schools, will be given advanced credit in completed subjects and advanced standing in the course.

A student who desires to transfer to this school from another recognized dental school must present credentials, signed by the Dean, Secretary or Registrar of the school from which he is transferring. No student who has incurred a condition or a failure in any subject at the school from which he desires to transfer will be accepted. The transferring student must furnish evidence that he is in possession of proper high school credits.

Attendance Requirements

In order to receive credit for a full session, each student must have entered and be in attendance on the day the Regular Session opens, at which time lectures in all classes begin, and remain until the close of the session, the dates for which are announced in the Calendar.

In case of serious personal illness as attested by a physician, a student may register not later than the twentieth day following the advertised

opening of the Regular Session. Students may register and enter not later than ten days after the beginning of the session, but such delinquency will be charged as absence from class.

In certain unavoidable circumstances of absence the Dean may honor excuses, but students with less than a minimum of eighty-five per cent. attendance will not be promoted to the next succeeding class. Regular attendance is demanded of all students. This rule will be rigidly enforced.

Promotion

In order that credit be given in any subject a grade of 75 per cent. must be earned. A student to be promoted to the next succeeding year must have passed courses amounting to at least 80 per cent. of the total scheduled hours of the year.

A grade between 60 per cent. and passing mark is a *condition*. A grade below 60 per cent. is a *failure*. A condition may be removed by an examination. In such effort inability to make a passing mark is considered a *failure*. A failure can only be removed by repeating the course. A student with combined conditions and failures amounting to 40 per cent. of the scheduled hours of the year will be required to repeat his year. Students who are required to repeat courses must pay regular fees.

Equipment

A complete list of all necessary instruments and materials for technic and clinic courses and textbooks for lecture courses will be announced for the various classes. Each student will be required to provide himself with whatever is necessary to meet the needs of his course and present same to responsible class officer for inspection. No student will be permitted to go on with his class who does not meet this requirement.

Department

The profession of dentistry demands, and the School of Dentistry requires evidence of good moral character of its students. The conduct of the student in relation to his work and fellow-students will indicate his fitness to be taken into the confidence of the community as a professional man. Integrity, sobriety, temperate habits, truthfulness, respect for authority and associates, honesty in the transaction of business affairs as a student will be considered as evidence of good moral character necessary to granting of degree.

Requirement for Graduation

The degree of Doctor of Dental Surgery is conferred upon the completion of the five-year course of study, each year to consist of thirty-two weeks, and each week to consist of six days of school work. The candidate must be twenty-one years of age and must possess a good moral character, and must have passed in all branches of the curriculum.

Expenses

Matriculation fee (paid only once)	\$ 10.00
Tuition, resident student	200.00
Tuition, non-resident student	250.00
Dissecting fee (paid only once)	15.00
Laboratory fee	20.00
Graduation fee	10.00

Matriculation fee must be paid when registration card is issued. Tuition fee may be paid one-half October first and one-half February first. Dissecting fee must be paid to secure class card for admission to clinics. Laboratory fee must be paid at the beginning of the session. Graduation fee must be paid on May first.

All students of the several classes will be required to obtain a card of registration at the office of the Registrar, pay to the Comptroller one-half of the tuition fee, and full amount of laboratory fee before being regularly admitted to class work. The balance of tuition and other incidental fees must be in the hands of the Comptroller on February 1st, before beginning work of the second semester.

According to the policy of the School of Dentistry no fees will be returned. In case the student discontinues his course any fees paid will be credited to a subsequent course, but are not transferable.

These requirements will be rigidly enforced.

Students may matriculate by mail by sending amount of fee to W. M. Hillegeist, Registrar, University of Maryland, Lombard and Greene Streets, Baltimore, Md.

THE SCHOOL OF LAW

HENRY D. HARLAN, *Dean*.

THE FACULTY COUNCIL

HON. HENRY D. HARLAN, A.M., LL.B., LL.D., *Dean*.
HON. ALFRED S. NILES, A.M., LL.B.
HON. JOHN C. ROSE, LL.B., LL.D.
RANDOLPH BARTON, JR., ESQ., A.B., LL.B.
EDWIN T. DICKERSON, ESQ., A.M., LL.B., *Secretary*.
HON. JAMES P. GORTER, A.M., LL.D.
CHARLES MCHENRY HOWARD, ESQ., A.B., LL.B.
HON. MORRIS A. SOPER, A.B., LL.B.
ROBERT H. FREEMAN, A.M., LL.B.

While the first faculty of law of the University of Maryland was chosen in 1813, and published in 1817 "A Course of Legal Study Addressed to Students and the Profession Generally," which the North American Review pronounced to be "by far the most perfect system for the study of law which has ever been offered to the public," and which recommended a course of study so comprehensive as to require for its completion six or seven years, no regular school of instruction in law was opened until 1823. This was suspended in 1836 for lack of proper pecuniary support. In 1869 the Law School was organized, and in 1870 regular instruction therein was again begun. From time to time the course has been made more comprehensive and the staff of instructors increased in number. Its graduates now number more than two thousand, and included among them are a large proportion of the leaders of the Bench and Bar of the State and many who have attained prominence in the profession elsewhere.

The Law School Building adjoins the Medical School, and part of its equipment is a large library maintained for the use of the students, which contains carefully selected text-books on the various subjects embraced in the curriculum, reports of American and English courts, digests and standard encyclopedias. No fee is charged for the use of the library. Other libraries also are available for students.

Course of Instruction

The course of instruction in the Law School is designed to thoroughly equip the student for the practice of his profession when he attains the Bar. Instruction is offered in the various branches of the common law, of equity, the statute law of Maryland, and the public law of the United States. The course of study embraces both the theory and practice of the law, and aims to give the student a broad view of the origin, development and function of law, together with a thorough practical knowledge

of its principles and their application. Analytical study is made of the principles of substantive and procedural law, and a carefully directed practice court enables the student to get an intimate working knowledge of procedure.

Special attention is given to the statutes in force in Maryland, and to any peculiarities of the law in that State, where there are such. All of the subjects upon which the applicant for the Bar in Maryland is examined are included in the curriculum. But the curriculum includes all of the more important branches of public and private law, and is well designed to prepare the student for admission to the Bar of other States.

Arrangement of Hours

The Law School is divided into two divisions, the Day School and the Evening School. The same curriculum is offered in each school, and the standards of work and graduation requirements are the same in each school.

The Day School course covers a period of three years of thirty-two weeks each, exclusive of holidays. The class sessions are held during the day, chiefly in the morning hours.

The Evening School course covers a period of four years of forty weeks each, exclusive of holidays. The class sessions are held on Monday, Wednesday and Friday evenings of each week from 6:30 to 9:30 P. M. This plan leaves the alternate evenings for study and preparation by the student.

Requirements for Admission

Students entering in the fall of 1926 as applicants for a degree shall be required to produce evidence of the completion of at least one year of college work, or such work as would be accepted for admission to the second or sophomore year in the College of Liberal Arts of an accredited college or university in this State.

Students entering in the fall of 1927 as applicants for a degree shall be required to produce evidence of the completion of at least two years of college work, or such work as would be accepted for admission to the third or junior year in the College of Liberal Arts of an accredited college or university in this State.

Special Students—A limited number of students applying for entrance with less than the academic credit required of candidates for the law degree, who are over twenty-one years of age, and who, in the opinion of the Faculty Council, possess special qualifications for the study of law, may be admitted as candidates for the certificate of the school, but not for the degree.

Combined Program of Study Leading to the Degrees of Bachelor of Arts and Bachelor of Laws

The University of Maryland offers a combined program in arts and law leading to the degrees of Bachelor of Arts and Bachelor of Laws.

Students pursuing this combined program in college and pre-legal subjects will spend the first three years in the College of Arts and Sciences at College Park. The fourth year they will register in the Law School, and upon the successful completion of the work of the first year in the Day School, or the equivalent work in the Evening School, the degree of Bachelor of Arts will be awarded. The degree of Bachelor of Laws will be awarded upon the completion of the work prescribed for graduation in the School of Law.

Details of the combined course may be had upon application to the University of Maryland, College Park, Md.

Advanced Standing

Students complying with the requirements for admission to the school who have, in addition, successfully pursued the study of law elsewhere in an accredited law school, may, upon presentation of a certificate from such accredited law school showing his honorable dismissal therefrom, and the successful completion of equivalent courses therein, covering at least as many hours as are required for such subjects in this school, receive credit for such courses and be admitted to advanced standing. No credit will be given for study pursued in a law office, and no degree will be conferred until after one year of residence and study at this school.

Fees and Expenses

The charges for instruction are as follows:

Registration fee to accompany application	\$ 2.00
Matriculation fee, payable on first registration	10.00
Diploma fee, payable upon graduation	10.00

Tuition fee, per annum:

Day School	\$200.00
Evening School	150.00

An additional tuition fee of \$50.00 per annum must be paid by students who are non-residents of the State of Maryland.

The tuition fee is payable in two equal instalments, one-half at the time of registration for the first semester, and one-half at the time of registration for the second semester.

Further information and a special catalogue of the School of Law may be had upon application to the School of Law, University of Maryland, Lombard and Greene Streets, Baltimore, Md.

**THE SCHOOL OF MEDICINE
AND
COLLEGE OF PHYSICIANS AND SURGEONS**

J. M. H. ROWLAND, *Dean*.

MEDICAL COUNCIL

ARTHUR M. SHIPLEY, M.D., Sc.D.
GORDON WILSON, M.D.
HARRY FRIEDENWALD, A.B., M.D.
WILLIAM S. GARDNER, M.D.
STANDISH MCCLEARY, M.D.
JULIUS FRIEDENWALD, A.M., M.D.
J. M. H. ROWLAND, M.D.
ALEXIUS MCGLANNAN, A.M., M.D.
HUGH R. SPENCER, M.D.
H. BOYD WYLIE, M.D.
CARL L. DAVIS, M.D.
WILLIAM H. SCHULTZ, Ph.B., Ph.D.
MAURICE C. PINCOFFS, S.B., M.D.
FRANK W. HACHTEL, M.D.
A. H. RYAN, M.D.

The School of Medicine of the University of Maryland is one of the oldest foundations for medical education in America, ranking fifth in point of age among the medical colleges of the United States. In the school building at Lombard and Greene Streets in Baltimore was founded one of the first medical libraries and the first medical college library in America.

Here for the first time in America dissecting was made a compulsory part of the curriculum; here instruction in Dentistry was first given (1837), and here were first installed independent chairs for the teaching of diseases of women and children (1867), and of eye and ear diseases (1873).

This School of Medicine was one of the first to provide for adequate clinical instruction by the erection in 1823 of its own hospital, and in this hospital intramural residency for senior students first was established.

Clinical Facilities

The University Hospital, property of the University, is the oldest institution for the care of the sick in Maryland. It was opened in September, 1823, and at that time consisted of four wards, one of which was reserved for eye cases.

Besides its own hospital, the Medical School has control of the clinical facilities of the Mercy Hospital, in which were treated last year more than 30,000 persons.

In connection with the University Hospital, an outdoor obstetrical clinic is conducted. During the past year about 1,200 cases were treated in the hospital and outdoor clinic.

The hospital now has about 275 beds—for medical, surgical, obstetrical and special cases, and furnishes an excellent supply of clinical material for third and fourth-year students.

Dispensaries and Laboratories

The dispensaries associated with the University Hospital and Mercy Hospital are organized on a uniform plan in order that teaching may be the same in each. Each dispensary has departments of Medicine, Surgery, Children, Eye and Ear, Genito-Urinary, Gynecology, Gastro-Enterology, Neurology, Orthopedics, Proctology, Dermatology, Throat and Nose, and Tuberculosis. All students in their junior year work one day of each week in one of these dispensaries; all students in the senior year work one hour each day. About 91,000 cases treated last year give an idea of the value of these dispensaries for clinical teaching.

Laboratories conducted by the University purely for medical purposes are the Anatomical, Chemical, Experimental Physiology, Physiological Chemistry, Histology and Embryology, Pathology and Bacteriology, and Clinical Pathology.

Prizes and Scholarships

Faculty Medal—To stimulate study among the candidates for graduation the Faculty of the School of Medicine offers a gold medal to the candidate who passes the best general examination. Certificates of Honor are awarded to the five candidates standing next highest.

Hirsh Prize—A prize of \$50 is given each year by Mrs. Jose L. Hirsh as a memorial to the late Dr. Jose L. Hirsh, former Professor of Pathology in this School, and is awarded to the student in the third year who has done the most satisfactory work in Pathology.

The Dr. Samuel Leon Frank Scholarship was established by Mrs. Bertha Frank as a memorial to the late Dr. Samuel Leon Frank, an alumnus of the University, and entitles the holder to exemption from payment of one-half of the tuition fee for the year. It is awarded each year upon the nomination of the Faculty "to a medical student who in the judgment of the said Faculty is of good character and in need of pecuniary assistance to continue his medical course."

Hitchcock Scholarships—From a bequest to the School of Medicine by the late Charles M. Hitchcock, M.D., an alumnus of the University, two scholarships have been established which entitle the holders to exemption from payment of one-half of the tuition fees for the year.

These scholarships are awarded annually by the Faculty to students who have meritoriously completed the work of at least the first year of the curriculum in medicine, and who present to the Faculty satisfactory evidence of good moral character and of inability to continue the course without pecuniary assistance.

The Randolph Winslow Scholarship, established by Prof. Randolph Winslow, M.D., LL.D., entitles the holder to exemption from the payment of one-half of the tuition fee of that year.

It is awarded annually by the Trustees of the Endowment Fund of the University, upon nomination of the Faculty, to "a needy student of the senior, junior or sophomore class of the Medical School. He must have maintained an average grade of 85 per cent in all his work up to the time of awarding the scholarship. He must be a person of good character and must satisfy the Faculty of Physic that he is worthy of and in need of assistance."

The University Scholarship entitles the holder to exemption from payment of the tuition fee of the year and is awarded annually by the Faculty to a student of the senior class who presents to the Faculty satisfactory evidence that he is of good moral character and is worthy of and in need of assistance to complete his work.

The Frederica Gehrmann Scholarship was established by bequest of the late Mrs. Frederica Gehrmann and entitles the holder to exemption from payment of tuition fees. This scholarship is awarded to a second-year student who at the end of the year passes the best practical examination in Anatomy, Physiology, Physiological Chemistry and Pharmacology. This examination is competitive.

The Dr. Leo Karlinsky Scholarship, established by Mrs. Leo Karlinsky in memory of her husband, Dr. Leo Karlinsky, entitles the holder to exemption from payment of tuition fee of that year to the extent of \$200.00. It is awarded annually by the Trustees of the Endowment Fund of the University upon nomination of the Medical Council, "to a needy student of the senior, junior or sophomore class of the Medical School. He must have maintained an average grade of 85 per cent in all his work up to the time of awarding the scholarship. He must be a person of good character and must satisfy the Medical Council that he is worthy of and need of assistance."

The Clarence and Geneva Warfield Scholarships — There are five scholarships of \$300 each, established by the Regents from the income of the fund bequeathed by the will of Dr. Clarence Warfield.

These scholarships will be available to students of any of the classes of the course in medicine. Preference is given to students from the counties of the State of Maryland which the Medical Council from time to time may determine to be most in need of medical practitioners.

Any student receiving one of these scholarships must, after graduation and a year's internship, agree to undertake the practice of medicine for a term of two years in the county to which the student is accredited or in a county selected by the Council. In the event that a student is not able to comply with the condition requiring him to practice in the county in which he is accredited by the Council, the money advanced by the Regents shall be refunded. A bond in the amount of \$1,200, the expense of which is borne by the Fund, must be filed by the student accepting one of these scholarships for faithful performance of the conditions imposed.

Walter B. Brooks Scholarship—Mr. Walter B. Brooks, who is a member of the Hospital Council, has established a four-year scholarship. This scholarship is of the value of \$350 a year. Its award is governed by the same terms and conditions as the Warfield Scholarships.

Israel and Cecilia A. Cohen Scholarship—This scholarship has been established through the generosity of Miss Eleanor S. Cohen, of Baltimore, in memory of her parents, Israel and Cecilia E. Cohen. This is governed by the same terms and conditions as the Warfield Scholarships.

Requirements for Admission

Admission to the curriculum in medicine is by a completed Medical Student Certificate issued by the registrar of the University of Maryland. This certificate is obtained on the basis of satisfactory credentials, or by examination and credentials, and is essential for admission to any class.

The requirements for the issuance of the Medical Student's Certificate are:

(a) The completion of a standard four-year high school course or the equivalent, and in addition:

(b) Two years, sixty-eight semester hours of college credits, including chemistry, biology, physics and English, as outlined in the Pre-Medical Curriculum, or its equivalent, will be required.

Women are admitted to the Medical School of this University.

(a) Details of the High School Requirements

For admission to the Pre-Medical Curriculum students,

1. Shall have completed a four-year course of 15 units in a standard accredited high school or other institution of standard secondary school grade; or,

2. Shall have the equivalent as demonstrated by successfully passing entrance examinations in the following subjects:

Credits for admission to the pre-medical course may be granted for the subjects shown in the following list and for any other subject counted by a standard accredited high school as a part of the requirement for its diploma provided that at least eleven units must be offered in Groups I-V:

(b) Schedule of Subjects Required or Accepted for Admission
to the Pre-Medical Curriculum

<i>Subjects</i>	<i>Units</i>	<i>Required</i>
GROUP I.—English:		
Literature and composition	3-4	3
GROUP II.—Foreign Languages:		
Latin	1-4	*2
Greek	1-3	--
French or German	1-4	--
Other foreign languages	1-4	--
GROUP III.—Mathematics:		
Elementary Algebra	1	1
Advanced Algebra	½-1	--
Plane Geometry	1	1
Solid Geometry	½	--
Trigonometry	½	--
GROUP IV.—History:		
Ancient History	½-1	--
Medieval and Modern History	½-1	--
English History	½-1	--
American History	½-1	--
Civil Government	½-1	--
GROUP V.—Science:		
Botany	½-1	--
Zoology	½-1	--

* Both of the required units of Foreign Languages must be of the same language, but the two units may be presented in any one of the languages specified.

Of the fifteen units of high school work seven units are required, as indicated in the foregoing schedule: the balance may be made up from any of the other subjects in the schedule.

<i>Subjects</i>	<i>Units</i>	<i>Required</i>
GROUP V.—Science (Continued):		
Chemistry	1	--
Physics	1	--
Physiography	½-1	--
Physiology	½-1	--
Astronomy	½	--
Geology	½-1	--

GROUP VI.—Miscellaneous:

Agriculture	1-2	--
Bookkeeping	½-1	--
Business Law	½	--
Commercial Geography	½-1	--
Domestic Science	1-2	--
Drawing—Freehand and Mechanical	½-2	--
Economics and Economy History	½-1	--
Manual Training	1-2	--
Music—Appreciation or Harmony	1-2	--
Stenography	1	--

Expenses

Following are the fees for students in the Medical School:

	<i>Tuition</i>			
	<i>Matriculation</i>	<i>Resident—Non-Resident</i>	<i>Laboratory</i>	<i>Graduation</i>
	\$10.00 (only once)	\$250.00 \$350.00	\$20.00 (yearly)	\$10.00

Estimated living expenses for students in Baltimore:

	<i>Low</i>	<i>Average</i>	<i>Liberal</i>
Books	\$35	\$60	\$75
College incidentals	20	20	20
Board, eight months	225	256	320
Room rent	64	80	100
Clothing and laundry	50	80	150
All other expenses	25	50	75
Total	\$386	\$546	\$740

SCHOOL OF NURSING

ANNIE CREIGHTON, R. N., *Director and Superintendent of Nurses.*

The University of Maryland School of Nursing was established in the year 1889. Since that time it has been an integral part of the University of Maryland Hospital.

The school is non-sectarian, the only religious services being morning prayers.

The University of Maryland Hospital is a general hospital containing about 285 beds. It is equipped to give young women a thorough course of instruction and practice in all phases of nursing, including experience in the operating room.

The school offers the student nurse unusual advantages in its opportunity for varied experience and in its thorough curriculum taught by well-qualified instructors and members of the medical staff of the University.

Programs Offered

The program of study of the School is planned for two groups of students: (a) The three-year group; (b) the five-year group.

Requirements for Admission

In order to become a candidate for admission to the three-year program of the School, application must be made in person or by letter to the superintendent of nurses. An application by letter should be accompanied by a statement from a clergyman, testifying to good moral character, and from a physician certifying to sound health and unimpaired faculties. No person will be considered who is not in a good physical condition, between the ages of 18 and 35. She must also show that she has a high-school education or its equivalent. This is the minimum requirement, for women of superior education and culture are given preference provided they meet the requirements in other particulars.

The fitness of the applicant for the work and the propriety of dismissing or retaining her at the end of her term of probation is left to the decision of the superintendent of nurses. Misconduct, disobedience, insubordination, inefficiency, or neglect of duty are causes for dismissal at any time by the superintendent of nurses, with the approval of the president of the University.

Students are admitted to this group in February, June and September.

The requirements for admission to the five-year program of the School of Nursing are the same as for the other colleges and schools. Section I, "Entrance."

Three-Year Program

The three-year program is designed to meet the requirements for the Diploma in Nursing and comprises the work of the Junior, Intermediate and Senior years.

Junior Year

The Junior Year is divided into two periods. The first term is the preparatory period (4 mos.) and the second the junior term.

In the preparatory term the student is given practical instruction in:

Junior Year—First Term

1. The making of hospital and surgical supplies. The cost of hospital materials, apparatus and surgical instruments.

2. Household economics and the preparation of foods.

3. The hospital outpatients department and dispensary.

During this term the practical work is done under constant supervision, and teaching is given correlatively.

Excursions are made to markets, hygienic dairies, linen-rooms, laundry and storeroom.

The maximum number of hours per week in formal instruction divided into lecture and laboratory periods is thirty hours and includes courses in anatomy and physiology, dietetics, materia medica, personal hygiene, drugs and solutions, household economics, short course in ethics and history of nursing.

At the close of the first half of junior year the students are required to pass satisfactorily both the written and oral tests, and failure to do so will be sufficient reason to terminate the course at this point.

Subsequent Course

The course of instruction, in addition to the probationary period, occupies two and three-fourth years, and students are not accepted for a shorter period.

After entering the wards, the students are constantly engaged in practical work under the immediate supervision and direction of the head nurses and instructors.

Throughout the three years, regular courses of instruction and lectures are given by members of the medical and nursing school faculties.

Junior Year—Second Term

During this period the students receive theoretical instruction in massage, general surgery, bacteriology, urinalysis and laboratory methods. Practical instruction is received in the male and female, medical, surgical and children's wards.

Intermediate Year

During this period the theoretical instruction includes pediatrics, infectious diseases, obstetrics and gynecology. The practical work provides experience in the nursing of obstetrical and gynecological patients in the operating rooms and the outpatient department.

Senior Year

During this period the student receives short courses of lectures on subjects of special interest. This includes a consideration of the work of institutions of public and private charities, of settlements, and various branches of professional work in nursing.

Experience is given in executive and administration work to those showing exceptional ability in the senior year. With these students conferences are held on administration and teaching problems.

Hours On Duty

During the probation term the students are on duty not more than six hours daily. During the Junior, Intermediate and Senior years, the students are on eight-hour day duty, with six hours on Sundays and holidays, and ten-hour night duty. The night duty periods are approximately two months each, with one day at the termination of each term for rest and recreation. The period of night duty is approximately five or six months during the three years.

Sickness

A physician is in attendance each day, and when ill all students are cared for gratuitously. The time lost through illness in excess of two weeks, during the three years, must be made up. Should the authorities of the school decide that through the time lost the theoretical work has not been sufficiently covered to permit the student to continue in that year, it will be necessary for her to continue her work with the next class.

Vacations

Vacations are given between June and September. A period of three weeks is allowed the student at the completion of first and second years.

Expenses

A student receives her board, lodging and a reasonable amount of laundry from the date of entrance. During her period of probation she provides her own uniforms made in accordance with the hospital regulations. After being accepted as a student nurse she wears the uniform furnished by the hospital. The student is also provided with textbooks and in addition to this is paid five dollars (\$5.00) a month. Her personal expenses during the course of training and instruction will depend entirely upon her individual habits and tastes.

Five-Year Program

In addition to the regular three-year course of training the University offers a combined Academic and Nursing program leading to the degree of Bachelor of Science and a Diploma in Nursing.

The first two years of the course (or pre-hospital period), consisting of 70 semester hours, are spent in the College of Arts and Sciences of the University, during which period the student has an introduction to the general cultural subjects which are considered fundamental in any college training. At least the latter of these two years must be spent in residence at College Park in order that the student may have her share in the social and cultural activities of college life. The last three years are spent in the School of Nursing in Baltimore or in the Training School of Mercy Hospital, which is also affiliated with the School of Medicine of the University. In the fifth year of the combined program certain elective courses such as Public Health Nursing, Nursing Education, Practical Sociology, and Educational Psychology are arranged.

	Semester	
	I	II
<i>Freshman Year</i>		
English Composition and Rhetoric (Eng. 1)-----	3	3
Foreign Language -----	4-3	4-3
General Chemistry (Chem. 1)-----	4	4
Elements of Social Science (Soc. Sci. 1)-----	3	3
Elementary Foods (H. E. 1)-----	3	3
Physical Education (Phy. Ed. 1)-----	1	1
	—	—
	18	18
<i>Sophomore Year</i>		
English Literature or History-----	3	3
Organic and Food Chemistry-----	3	—
Nutrition -----	—	3
General Economics (Econ. 5)-----	3	—
Elements of Psychology (Psych. 1)-----	—	3
Gen. Zoology (Zool. 1)-----	4	—
Public Speaking (P. S. 1-2)-----	1	1
Physical Education (Phys. Ed. 2)-----	2	2
Electives -----	1	5
	—	—
	17	17

Degree and Diploma

The Diploma in Nursing will be awarded to those who have completed satisfactorily the three-years' program.

The degree of Bachelor of Science and the Diploma in Nursing are awarded to the students who complete successfully the prescribed combined academic and nursing program.

Scholarships

One scholarship has been established by the alumnae of the training school. It entitles a nurse to a six-weeks course at Teachers College, New York. This scholarship is awarded at the close of the third year to the student whose work has been of the highest excellence, and who desires to pursue post-graduate study and special work.

An alumnae pin is presented by the Woman's Auxiliary Board to the student who, at the completion of three years, shows exceptional executive ability.

SCHOOL OF PHARMACY

A. G. DU MEZ, *Dean.*

The School of Pharmacy was organized in 1841, largely at the instance of members of the Faculty of Medicine, and for a time the lectures were delivered at the Medical School. Later it became separated and continued an independent organization, as the Maryland College of Pharmacy, until it finally became part of the University in 1904. With but one short intermission, previous to 1865, it has continuously exercised its functions as a teaching school of pharmacy.

Location

The School of Pharmacy is located at the northeast corner of Lombard and Greene Streets, with the Schools of Medicine, Law and Dentistry.

Policy and Degrees

The chief purpose of this school is to prepare its matriculants for the intelligent practice of dispensing pharmacy, without overlooking the fact that there exist other divisions of the profession.

Upon completion of the first three years of the course, the diploma of Graduate in Pharmacy (Ph.G.) is awarded, which admits the holder to the board examinations in the various States for registration as a pharmacist.

The degree of Bachelor of Science in Pharmacy (B. S. in Phar.) will be given upon the successful completion of the work prescribed for the entire four years.

Combined Curriculum in Pharmacy and Medicine

A combined curriculum has been arranged with the Medical School of the University of Maryland by which students may obtain the degree of Bachelor of Science in Pharmacy and Doctor of Medicine in seven years. Students who successfully complete the first three years of the course in Pharmacy, and in addition eight semester hours in Zoology, are eligible for admission into the Medical School of the University of Maryland, and upon the successful completion of the first two years of the medical course will be awarded the degree of Bachelor of Science in Pharmacy by the School of Pharmacy.

This privilege will be open only to students who maintain a uniformly good scholastic record during the first two years of the course in Pharmacy, and those who wish to avail themselves of it must so advise the School of Pharmacy before entering upon the work of the third year in order that provision may be made for the required instruction in Zoology.

Recognition

This school holds membership in the American Association of Colleges of Pharmacy. The object of the Association is to promote the interests of pharmaceutical education, and all institutions holding membership must maintain certain minimum requirements for entrance and graduation. Through the influence of this Association, uniform and higher standards of education have been adopted from time to time, and the fact that several States by law or by Board ruling recognize the standards of the Association is evidence of its influence.

This school is registered in the New York Department of Education and its diploma is recognized in all States.

Requirements for Admission

The applicant must have completed a four-year standard high school course, or its equivalent. A minimum age of seventeen years is demanded except when the candidate is a graduate of an accredited high school or of an institution of equal grade.

Admission to the course in pharmacy is by certificate issued by the Registrar of the University of Maryland, Lombard and Greene Streets, Baltimore Md. The certificate is issued on the basis of credentials, or by examination, or both.

Applicants whose credentials do not meet the requirements must stand an examination in appropriate subjects to make up the required number of units. The fee for such examination is one dollar per subject; five dollars for the entire number of subjects.

Credit will be given for first-year pharmaceutical subjects to those students coming from schools of pharmacy holding membership in the American Association of Colleges of Pharmacy, provided they present a proper certificate of the satisfactory completion of such subjects and meet the entrance requirements of this school. Credit for general educational subjects will be given to those students presenting evidence of having completed work of equal value.

Requirements for Graduation

1. The candidate must possess a good moral character.
2. He must have completed successfully the work specified in the first three years of the course if a candidate for the Graduate in Pharmacy (Ph.G.) diploma; or four years if a candidate for the degree of Bachelor of Science in Pharmacy. In either case the last year must be taken in this school.

Matriculation and Registration

The Matriculation Ticket must be procured from the office of the School of Pharmacy, and must be taken out before entering the classes. All students after matriculation are required to register at the Office of the Registrar. The last date of matriculation is October 4th, 1926.

Expenses

Matriculation	Tuition		Laboratory	Graduation
	Resident	Non-Resident		
\$10.00 (only once)	\$200.00	\$250.00	\$20.00 (yearly)	\$10.00

Tuition for the first semester and breakage fee shall be paid to the Comptroller at the time of registration; and tuition for the second semester and graduation fee (returned in case of failure) on or before January 31st, 1927.

A bulletin giving details of the course in Pharmacy may be obtained by addressing the School of Pharmacy, University of Maryland, Baltimore, Maryland.

SECTION III

DESCRIPTION OF COURSES

The courses of instruction described in this section are offered at College Park. The courses offered in the Baltimore Schools are described in the separate announcements issued by the several schools.

For the convenience of the student in making out his schedule of studies, the subjects in the following Description of Courses are arranged alphabetically, as follows:

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Courses for undergraduates are designated by the numbers 1-99; courses for advanced undergraduates and graduates, 100-199; courses for graduate students by the numbers 200-299.

The letter following the number of the course indicates the semester in which the course is offered: thus, 1 f is offered the first semester; 1 s, the second semester; 1 y, the year. A capital S after a course number indicates that the course is offered in the summer session only.

The number of hours' credit is shown by the arabic numeral in parenthesis after the title of the course.

A separate schedule of courses is issued each semester, giving the hours, places of meeting and other information required by the student in making out his schedule. Students will obtain their schedules when they register.

Students are advised to consult the statements of the colleges and schools in Section II when making out their programs of studies; also Regulation of Studies, Section I.

AGRICULTURAL ECONOMICS

A. E. 1 f. *Agricultural Economics* (3)—Three lectures or recitations. Prerequisite, Econ. 105 A s.

A general course in Agricultural Economics, with special reference to population trend, agricultural wealth, land tenure, farm labor, agricultural credit, the tariff, price movements and marketing and co-operation.

A. E. 2 s. *The Marketing of Farm Products* (3)—Three lectures or recitations. Open to juniors and seniors. Prerequisite, Econ. 105 A s.

A complete analysis of the present system of transporting, storing and distributing farm products and a basis for intelligent direction of effort in increasing the efficiency of marketing methods.

A. E. 3 f. *Co-operation in Agriculture* (3)—Three lectures or recitations. Open to juniors and seniors. Prerequisite, Econ. 105 A s.

Historical and comparative development of farmers' co-operative organizations, stressing particularly present tendencies.

A. E. 4 s. *Advertising Agricultural Products* (3)—Three lectures. Methods of giving publicity to agricultural products held for sale, naming the farm, advertising mediums; trade marks and slogans, roadside markets, demand vs. competition, legal aspects of advertising, advertising costs and advertising campaigns.

For Advanced Undergraduates and Graduates

A. E. 101 s. *Transportation of Farm Products* (3)—Three lectures or recitations. Open to seniors and graduate students.

A study of the development of transportation in the United States, the different agencies for transporting farm products, with special attention to such problems as tariffs, rate structure and the development of fast freight lines, refrigerator service, etc. (DeVault.)

A. E. 102 f. *Seminar in Marketing* (1-3)—Open to seniors and graduate students.

This course will consist of special reports by students on subjects relating to the marketing of farm products, and a discussion and criticism of the same by the members of the class and the instructor. (DeVault.)

A. E. 103 s. *Seminar* (1-3)—Open to seniors and graduate students.

With the permission of the instructor, students will work on any research problems in agricultural economics which they may choose, or a special list of subjects will be made up from which the students may select their research problems. There will be occasional class meetings for the purpose of reports on progress of work, methods of approach, etc. (DeVault.)

For Graduates

A. E. 201 y. *Research and Thesis* (8)—Students will be assigned research work in Agricultural Economics under the supervision of the instructor. The work will consist of original investigation in problems of Agricultural Economics, and the results will be presented in the form of a thesis.

AGRICULTURAL EDUCATION AND RURAL LIFE

For Advanced Undergraduates and Graduates

AG. ED. 100 s. *Survey of Teaching Methods for Agricultural Students* (3)—Three lectures, one conference period and one laboratory period. Open to juniors and seniors; required of juniors in Agricultural Education. Prerequisite, Ed. 101.

The nature of educational objectives, the class period, steps of the lesson plan, observation and critiques, type lessons, lesson planning, class management.

AG. ED. 101 y. *Teaching Secondary Vocational Agriculture* (8)—Three lectures and one laboratory period the first semester. One seminar period and practicum work to be arranged the second semester. Practicum work may be arranged during the first semester. Prerequisites, Ag. Ed. 100; A. H. 101, 102; Dairying 1; Poultry 1; Soils 1; Agron. 1, 2; Hort. 1, 11; F. Mech. 101, 104; A. E. 1; F. M. 2.

Types of schools and classes; administrative programs; qualifications of teachers; day class instruction—objectives, selection of projects, project instruction, selection of content for group instruction, methods of class period; evening class instruction, part time class instruction, equipment and other administrative problems; unit courses; student projects; investigations; reports. (Cotterman.)

AG. ED. 102 s. *Educational Leadership in Rural Communities* (3)—Three lectures a week.

Ancient and foreign rural communities; evolution of American rural communities; rural social institutions; analysis of rural communities; rural community problems; rural community centers; rural community programs; principles of leadership; rural community leaders; investigations; reports. This course is designed especially for persons who expect to be called upon to assist in shaping educational and other community programs for rural people. (Cotterman.)

AG. ED. 103 s. *Objectives and Methods in Extension Education* (3)—Three lectures a week.

Given under the supervision of the Extension Service and designed to equip young men to enter the broad field of extension work. Methods of assembling and disseminating the agricultural information available for the practical farmer; administration, organization, supervision and practical details connected with the work of a successful county agent, club work and extension specialist. Students will be required to gain experience under the guidance of men experienced in the respective fields. Traveling expenses for this course will be adjusted according to circumstances, the ability of the man and the service rendered. (Cotterman and Extension Specialists.)

AG. ED. 104 f. *Teaching Farm Shop in Secondary School* (1)—One lecture a week.

Objectives in the teaching of farm shop; contemporary developments; determination of projects; shop management; shop programs; methods of teaching; equipment; materials of instruction; special projects. (Carpenter.)

For Graduates

AG. ED. 201 S. *Special Problems in the Teaching of Vocational Agriculture* (3 or 4)—Summer sessions only. Prerequisite Ag. Ed. 101.

Analysis of the work of the supervisor; supervisory programs; policies; problems; contemporary developments; principles of supervision; investigations; reports. (Cotterman.)

AG. ED. 202 S. *Supervision of Vocational Agriculture* (3 or 4)—Summer sessions only. Prerequisite Ag. Ed. 101.

Analysis of the work of the supervisor; supervisory programs; policies; problems; contemporary developments; principles of supervision; investigations; reports. (Cotterman.)

AG. ED. 203 s. *Rural Community Surveys* (3-5)—Credits determined by the amount and character of work done. One lecture. Prerequisites Ag. Ed. 102; Agron. 122.

Essentially a field course. Each student is required to make a social survey of some community and to submit a satisfactory report of the same. The work may be done during the summer in the community in which the student may be residing or if he be a teacher, it may be done during the winter in the community in which he may be teaching. Students electing this course must arrange to report for conferences both before the work is undertaken and during the time the work is in progress. At least one field conference must be arranged with the instructor. (Cotterman.)

AG. ED. 204 s. *Seminar in Agricultural Education* (3).

Problems in the administration and organization of Agricultural Education—prevocational, secondary, collegiate and extension; individual problems and papers; current literature. (Cotterman.)

AGRONOMY

AGRON. 1 f. *Field Crop Production* (3)—Two lectures and one laboratory period.

History, distribution, adaptation, culture, improvement and uses of cereal, forage, pasture, cover and green manure crops.

AGRON. 2 s. *Field Crop Production* (3)—Two lectures and one laboratory period.

Continuation of Agron. 101.

AGRON. 3 s. *Grading Farm Crops* (2)—One lecture and one laboratory period. Prerequisite, Agron. 101 and 102.

Market classifications and grades as recommended by the United States Bureau of Markets and practice in determining the grades.

AGRON. 4 f. *Grain and Hay Judging, Identification and Judging of Farm Crops* (1)—One laboratory period. Prerequisite, Agron. 101 and 102.

A study of the classification of farm crops; and practice in judging the cereals for milling, seeding and feeding purposes and practice in judging hay.

AGRON. 5 s. *Tobacco Production* (2)—One lecture and one laboratory period. Offered only in even years, 1924, 1926, etc.

This course takes up in detail the handling of the crop from preparation of the plant bed through marketing, giving special attention to Maryland types of tobacco.

AGRON. 9 y. *Research and Thesis* (4).

Students are given a chance to do investigation work either in collecting information or in solving some problem in the laboratory, field or greenhouse.

For Advanced Undergraduates and Graduates

AGRON. 101 f. *Genetics* (3)—Two lectures and one laboratory period.

General course in genetics designed to prepare students for later courses in the breeding of animals or crops in which they are specializing. (Kemp.)

AGRON. 102 f. *Advanced Genetics* (3)—Two lectures and one laboratory period. Prerequisite, Agron. 110.

This course takes up further details of mutants and chromosome irregularities, interference and coincidence, interspecies crosses and the results of physical attempts to modify germplasm. (Kemp.)

AGRON. 103 f. *Crop Breeding* (2)—One lecture and one laboratory period. Prerequisite, Agron. 110.

The principles of breeding as applied to field crops and methods used in crop improvement. (Kemp.)

AGRON. 120 s. *Cropping Systems and Methods* (2)—Two lectures. Prerequisites, Agron. 101 and Soils 101.

Principles and factors influencing cropping systems in the United States; study of rotation experiments; theories of cropping methods; and practice in arranging type farming systems. (Metzger.)

AGRON. 121 s. *Methods of Crop Investigations* (2)—One lecture and one laboratory period.

A consideration of crop investigation methods at the various experiment stations and the standardization of such methods. (Kemp.)

AGRON. 122 f. *Agricultural Statistics* (2)—Two lectures.

A study of the collection, analysis, interpretation and presentation of agricultural statistics. The course will include the making of maps, diagrams, charts and graphs, together with a study of expressions of type variability and correlation.

AGRON. 123 s. *Advanced Agricultural Statistics* (2)—Two lectures. Prerequisite Agron. 110 or Agron. 122.

A study of the theory of error, measures of relationship, multiple correlation and regression, curve fitting.

AGRON. 129 y. *Seminar* (2)—One report period each week.

The seminar is devoted largely to reports by students on current scientific publications dealing with problems in agronomy.

For Graduates

AGRON. 201 y. *Crop Breeding*—Credits determined by work accomplished.

The content of this course is similar to the undergraduate course in crop breeding, but will be adapted more to graduate students and more of a range will be allowed in choice of material to suit special cases. (Kemp.)

AGRON. 209 y. *Research*—Credits determined by work accomplished.

With the approval of the head of the department the student will be allowed to work on any problem in agronomy or he will be given a list of suggested problems from which he may make a selection. (Staff.)

ANIMAL HUSBANDRY

A. H. 1 f. *General Animal Husbandry* (3)—Two lectures and one laboratory period.

Place of livestock in the farm organization. General principles underlying efficient livestock management. Brief survey of breeds, types and market classes of livestock together with an insight into our meat supply.

A. H. 2 f. *Feeds and Feeding* (3)—Two lectures and one laboratory period.

Elements of nutrition, source, characteristics and adaptability of the various feeds to the several classes of livestock. Feeding standards, the calculation and compounding of rations.

A. H. 3 s. *Principles of Breeding* (3)—Two lectures and one laboratory period. Junior year.

This course covers the practical aspects of animal breeding, including heredity, variation, selection, development, systems of breeding and pedigree work.

A. H. 4 s. *Swine Production* (3)—Two lectures and one laboratory period.

The care, feeding, breeding, management and judging of swine and the economics of the swine industry.

A. H. 5 f. *Beef Production* (2)—Two lectures and one laboratory period.

The care, feeding, breeding, management of beef herds, fattening and the economics of the beef industry.

A. H. 6 s. *Horse and Mule Production* (2)—One lecture and one laboratory period. Junior year.

The care, feeding, breeding and management of horses. Market classes and grades and judging.

A. H. 7 s. *Sheep Production* (3)—Two lectures and one laboratory period. Senior year.

Care, feeding, breeding and management of the farm flock. Judging of sheep and the grading of wool.

A. H. 8 f. *Meat and Meat Products* (2)—Two laboratory periods. Senior year.

The slaughtering of meat animals and the production, preparation and curing of meat and meat products.

A. H. 9-10 y. *Advanced Judging* (2)—One laboratory period. Junior or senior year.

First Semester—The comparative and competitive judging of sheep and swine.

Second Semester—The comparative and competitive judging of horses and beef cattle. Trips to various stock farms throughout the state will be made. Such judging teams as may be chosen to represent the university will be selected from among those taking this course.

A. H. 11 s. *Markets and Marketing* (3)—Two lectures and one laboratory period. Senior year.

History and development, organization and status of the meat, wool and horse industries. Market classes and grades of livestock. American livestock markets and how they function.

A. H. 12 y. *Research and Thesis* (4-6).

Work to be done by assignment and under supervision. Original investigation in problems in animal husbandry, the results of which research are to be presented in the form of a thesis, a copy of which must be filed in the department library.

For Advanced Undergraduates and Graduates

A. H. 101 s. *Nutrition* (3)—Two lectures and one laboratory period. Senior year.

A study of digestion, assimilation, metabolism and protein and energy requirements. Methods of investigation and studies in the utilization of feed and nutrients. (Meade.)

A. H. 102 y. *Seminar* (2)—One lecture period. Senior and graduate students only. Students are required to prepare papers based upon current scientific publications relating to animal husbandry or upon their research work for presentation before and discussion by the class.

For Graduates

A. H. 201 y. *Research*—Credit to be determined by the amount and character of work done. With the approval of the head of the department, students will be required to pursue original research in some phase of animal husbandry, carry the same to completion and report the results in the form of a thesis. (Staff.)

AQUICULTURE

(See under Zoology)

ASTRONOMY

ASTR. 1 f or s. *Astronomy* (3)—Three lectures. Elective. An elementary course in descriptive astronomy.

BACTERIOLOGY

BACT. 1 f. *General Bacteriology* (3)—Repeated second semester. One lecture and two laboratory periods. Junior year.

A brief history of bacteriology; microscopy; bacteria and their relation to nature; morphology, classification; preparation of cultural media; sterilization and disinfection; microscopic and macroscopic examination of bacteria; classification, composition and uses of stains; isolation, cultivation and identification of aerobic and anaerobic bacteria; vital activities of bacteria.

BACT. 2 s. *General Bacteriology* (3)—One lecture and two laboratory periods.

Continuation of Bact. 1. Application of Bacteriology to water, milk, foods, soil and air; Pathogens and Immunity.

BACT. 3 s. *Household Bacteriology* (3)—One lecture and two laboratory periods. Junior year.

A brief history of bacteriology; laboratory technique; care, preservation and contamination of foods: Personal, home and community hygiene.

BACT. 4 s. *Sanitary Bacteriology* (1)—One lecture period. Senior year, for engineering students.

Application to water purification and sewage disposal.

For Advanced Undergraduates and Graduates

BACT. 101 y. *Dairy Bacteriology* (6)—One lecture and two laboratory periods. Senior year. Prerequisite Bact. 1.

Historical sketch; relation of bacteria to dairy products; preparation of media; plating by dilution method; direct microscopic examination; kinds of bacteria in milk, and their development; pasteurization, by flash and hold methods; sources of contamination of milk; care of milk; abnormal milks; tests and their relation to bacterial counts; fermented milks; bacteriological analyses of standard grades of milk and milk products; preparation of starters; requirements and standards for various grades of milk; public health requirements. (Polema.)

BACT. 102 y. *Advanced Bacteriology* (4-10)—Senior year. Prerequisite, Bact. 1.

This course is intended primarily to give the student a chance to develop his own initiative. He will be allowed to decide upon his project and work it out as much as possible in his own way under proper supervision. In this manner he will be able to apply his knowledge of bacteriology to a given problem in that particular field in which he is interested. He will get to know something of the methods of research. Familiarity with library practices and current literature will be included. (Pickens.)

BACT. 103 f. *Hematology* (2)—Senior year. Prerequisite, Bact. 1. Procuring blood; estimating the amount of hemoglobin; color index; examination of red cells and leucocytes in fresh and stained preparations; numerical count of erythrocytes and leucocytes; differential count of

leucocytes; sources and development of the formed elements of blood; pathological forms and counts. (Pickens.)

BACT. 104 f. *Serology* (2-3)—Senior year. Prerequisite, Bact. 2.

The theory and application of the Complement Fixation Test. (Welsh.)

BACT. 105 f. *Pathological Technique* (3)—Senior year. Prerequisite Bact. 1.

Examination of fresh material; free hand sections; fixation; frozen sections; decalcification; celloidin and paraffin imbedding processes; sectioning; general and special staining processes. (Pickens.)

BACT. 106 s. *Urinalysis* (2)—Senior year. Prerequisite Bact. 1. (Malcolm.)

BACT. 107 y. *Thesis* (4)—Senior year. Prerequisites, Bact. 1 and at least one of the advanced courses.

Investigation of given project, results of which are to be presented in the form of a thesis and submitted for credit toward graduation. (Pickens.)

BACT. 108 y. *Seminar* (2)—Senior year.

The work will consist of making reports on individual projects and on recent scientific literature. (Pickens and Staff.)

For Graduates

BACT. 201 y. *Research Bacteriology* (4-12)—Prerequisites, Bact. 1 and in certain cases, Bact. 103, depending upon the project. (Pickens.)

BOTANY

(For other Botanical Courses see Plant Physiology and Plant Pathology.)

BOT. 1 f or s. *General Botany* (4)—Two lectures and two laboratory periods.

General introduction to botany, touching briefly on all phases of the subject and planned to give the fundamental prerequisites for study in the special departments.

BOT. 2 f or s. *General Botany* (8)—Two lectures and two laboratory periods.

The first semester, morphology, structure, and physiology of the higher plants; the second semester, algae, bacteria, fungi, liverworts, mosses, ferns, and seed plants. The development of reproduction from the simplest form to the most complex; adjustment of plants to the land habit of growth; field trips to study the local vegetation; trips to the botanical gardens, parks and greenhouses in Washington to study other plants of special interest. A cultural course intended also as foundational to a career in the plant sciences. (Temple.)

BOT. 3 s. *Systematic Botany* (2)—One lecture and one laboratory period. Prerequisite, Bot. 101.

A study of the local flora. A study is made of floral parts and the essential relations between the groups of flowering plants. Students become familiar with the systematic key used to identify plants.

BOT. 4 s. *Mycology* (2)—One lecture and one laboratory period.

Introductory comparative study of the morphology, life history and classification of economic fungi.

For Advanced Undergraduates and Graduates

BOT. 101 f. *Plant Anatomy* (3)—One lecture and two laboratory periods.

A study of the structures of roots, stems, leaves, flowers, and fruits; the origin and development of organs and tissue systems in vascular plants. (Zimmerman.)

BOT. 102 f. *Methods in Plant Histology* (3)—One lecture and two laboratory periods. Prerequisite, Bot. 101.

Primarily a study in technique. It includes methods of killing, fixing, imbedding, sectioning, staining and mounting of plant materials. (Zimmerman.)

BOT. 103 f or s. *Advanced Taxonomy* (3)—One lecture and two laboratory periods. Prerequisite, Bot. 101.

The course is offered for students who want more proficiency in systematic botany than the elementary course affords. A student who completes the course should be able to classify the grasses and other common plants of the state. (Norton.)

BOT. 104 f or s. *Advanced Mycology* (2-5)—One lecture and one or more laboratory periods, according to credit. Prerequisite, Bot. 1 and Bact. 1.

A detailed treatment of the classification, morphology and economics of the fungi, with studies of life histories in culture and identification of field materials. (Norton.)

For Graduates

BOT. 202. *Special Studies of Fungi*—Credit hours according to work done. Prerequisite, Bot. 103 or 106.

Special problems in the structure or life history of fungi or the monographic study of some group of fungi.

BOT. 203. *Special Plant Taxonomy*—Credit hours according to work done. Prerequisite, Bot. 103.

Original studies in the taxonomy of some group of plants.

CHEMISTRY

A. General Chemistry

CHEM. 1 A y. *General Chemistry and Qualitative Analysis* (8)—Two lectures and two laboratory periods each semester.

A study of the non-metals and metals, the latter being studies from a qualitative standpoint. One of the main purposes of the course is to develop original work, clear thinking and keen observation. This is accomplished by the project-method of teaching.

Course A is intended for students who have never studied chemistry, or have passed their high school chemistry with a grade of less than B.

CHEM. 1 B y. *General Chemistry and Qualitative Analysis* (8)—Two lectures and two laboratory periods each semester.

This course covers much the same ground as Chemistry 101 A, except that the subject matter is taken up in more detail with emphasis on chemical theory and important generalization. The laboratory work deals with fundamental principles, the preparation and purification of compounds and a systematic qualitative analysis of the more common bases and acids.

Course B is intended for students who have passed an approved high school chemistry course, with a grade of not less than B.

For Advanced Undergraduates and Graduates

CHEM. 100 y. *Inorganic Preparations* (6)—Two afternoons laboratory and one conference each semester. Prerequisite, Chem. 4.

The theory and practice of the preparation of pure, inorganic compounds. (Haring.)

For Graduates

CHEM. 201 y. *Research in Inorganic Chemistry* (12)—Open to students working for the higher degrees. Prerequisite, a bachelor's degree in Chemistry or its equivalent. (Gordon and Haring.)

B. Analytical Chemistry

CHEM. 2 f. *Qualitative Analysis* (2)—Two laboratory periods. Prerequisite; Chem. A or B 1.

A course in qualitative analysis for students in chemistry.

CHEM. 3 y. *Chemical Calculations* (2)—One credit each semester. Prerequisite, Chem. 1.

Chemical problems relating to analytical chemistry.

CHEM. 4 s. *Quantitative Analysis* (3)—Three laboratory periods. Prerequisite, Chem. 1.

Quantitative analysis for premedical students with special reference to volumetric methods.

CHEM. 5 y. *Determinative Mineralogy and Assaying* (4)—One lecture and one laboratory period. Prerequisite, Chem. 1.

The more important minerals are identified by their characteristic physical and chemical properties. Assays of gold, silver, copper and lead are made.

CHEM. 6 y. *Quantitative Analysis* (8)—One lecture and three laboratory periods. Prerequisite, Chem. 1.

The principal operations of gravimetric analysis. Standardization of weights and apparatus used in chemical analysis. The principal operations of volumetric analysis. Study of indicators, typical volumetric and colorimetric methods. Required of all students majoring in chemistry.

CHEM. 7 y. *Electro-Chemical Analysis* (2)—One lecture and one laboratory period. Prerequisite, Chem. 10.

For Advanced Undergraduates and Graduates

CHEM. 101 y. *Advanced Quantitative Analysis* (8)—Two lectures and two laboratory periods each semester. Prerequisites, Chem. 1; Chem. 6. A continuation of course 6. (Wiley.)

C. Organic Chemistry

CHEM. 8 y. *Elementary Organic Chemistry* (8)—Two lectures and two laboratory periods each semester. Prerequisite, Chem. 1.

The course is devoted to a study of the behavior of fundamental types of organic compounds from the standpoint of the electronic conception of valence.

The course is so balanced as to meet the needs of students specializing in chemistry and also premedical students.

CHEM. 9 f. *Elementary Organic Chemistry* (3)—Two lectures and one laboratory period. Prerequisite, Chem. 1.

The course is particularly designed for students in Home Economics.

For Graduates

Organic Chemistry 8 is required of all students taking graduate work in Organic Chemistry.

CHEM. 202 y. *Advanced Organic Chemistry* (8)—Two lectures and assigned laboratory work each semester. Prerequisites, Chem. 8.

A more advanced treatment of the aliphatic and aromatic compounds, with special emphasis on the most recent theories of structure of organic compound in the light of our modern conception of matter. (Kharasch.)

CHEM. 203 s. *Identification of Organic Compounds* (5)—Prerequisite, Chem. 202.

A systematic study of methods of identifying organic compounds. A thorough review of the most important chemical and physical properties of the fundamental types of organic compounds; methods of separating organic mixtures, etc. Consent of Instructor. (Kharasch.)

CHEM. 204 f or s. *Elementary Organic Analysis. (Combustions)* (3)—One lecture and two laboratory periods. (Kharasch.)

CHEM. 205 y. *Organic Preparations* (4)—One lecture and three laboratory periods. Eight hours of organic preparations are essential before a student is eligible for research. The laboratory work consists in preparing compounds described in the literature. No textbook. (Kharasch.)

CHEM. 206 s. *Color in Relation to Chemical Constitution* (1)—Prerequisites, Chem. 201.

A discussion of the theory of quinoidation, colors in dyestuffs, colors of second order, etc. (Kharasch.)

CHEM. 207 s. *Carbohydrates* (1)—Prerequisite, Chem. 8. (Kharasch.)

CHEM. 208. *Synthetic Drugs* (3)—One lecture and two laboratory periods. Prerequisite, Chem. 202. (Kharasch.)

CHEM. 209 s. *Selected Topics in Organic Chemistry* (2)—Two lectures.

Discussion of the theories of tautomerism, electromerism, molecular rearrangements, etc. Consent of Instructor. (Kharasch.)

CHEM. 210. *Research in Organic Chemistry*. (Kharasch.)

D. Physical Chemistry

CHEM. 10 y. *Elementary Physical Chemistry* (4 or 6)—Four credits for those specializing in chemistry; six for all others. Two lectures and one laboratory period each semester. Lectures only for chemists. Prerequisites, Chem. 1; Physics 1; Math. 1.

The course is intended to review the more theoretical points of inorganic chemistry from an advanced standpoint, to prepare the way for an extensive treatment of physical chemistry, and to furnish an elementary course in the subject for those who cannot pursue it farther.

CHEM. 11 s. *Elementary Colloid Chemistry* (2)—Two afternoons laboratory with conferences and lectures. Prerequisite, Chem. 10.

Required of those specializing in chemistry. Elective for others. The fundamental principles of colloid chemistry and its practical applications will be considered.

For Advanced Undergraduates and Graduates

CHEM. 102 f. *Physical Chemistry* (4)—Two lectures and two laboratory periods. Prerequisites, Chem. 6, Physics 102; Math. 105.

The gas laws, kinetic theory, liquids, solutions, elementary thermodynamics and thermo-chemistry, colloids, etc. (Haring.)

CHEM. 103 s. *Physical Chemistry* (4)—Two lectures and two laboratory periods. Prerequisite, Chem. 102.

A continuation of Chem. 102. Equilibrium, chemical kinetics, electrolytic conductivity, electromotive chemistry, structure of matter, etc. (Haring.)

For Graduates

CHEM. 102, 103 or its equivalent is prerequisite for all the following courses.

CHEM. 211 f. *Thermodynamics* (3)—Three lectures. Designed for graduate students who wish an advanced mathematical treatment of chemical phenomena. Mellor's Chemical Statics and Dynamics will be applied to Lewis' System of Physical Chemistry. (Gordon.)

CHEM. 212 y. *Colloid Chemistry* (6)—Two lectures and one laboratory period each semester.

Special topics will be taken up with emphasis on the most recent theories and research going on in colloid chemistry at the present time. (Gordon.)

CHEM. 213 f. *The Phase Rule* (2)—Two lectures.

A systematic study of heterogeneous equilibria. One, two and three component systems will be considered with practical applications of each. (Haring.)

CHEM. 214 s. *Structure of Matter* (2)—Two lectures.

Subjects considered will be radioactivity, isotopes, the Bohr and Lewis-Langmuir theories of atomic structure and allied topics. (Haring.)

CHEM. 215 f. *Catalysis* (2)—Two lectures.

This course will consist of lectures on the theory and use of catalysis in various reactions. (Haring.)

CHEM. 216 s. *Theory of Solutions* (2)—Two lectures. A detailed study will be made of the modern theory of ideal solutions, the theory of electrolytic dissociation, anomaly of strong electrolytes, etc. (Haring.)

CHEM. 217 f. *Electrochemistry* (2)—Two lectures.

The principles of electrochemistry. Subjects considered will be the theory of ionization, migration of ions, electromotive force, cells of various types, polarization, ionic equilibria both homogeneous and heterogeneous, theory of indicators, etc. (Haring.)

CHEM. 218 s. *Electrochemistry* (2)—Two lectures.

The practical applications of electrochemistry. Batteries both primary and secondary, electrodeposition and electrothermics will be discussed. (Haring.)

CHEM. 219 y. *Research in Physical Chemistry* (12)—Open to students working for the higher degrees. Prerequisite, a bachelor's degree in chemistry or its equivalent. (Haring and Gordon.)

E. Agricultural and Food Chemistry

CHEM. 12 y. *General Agricultural Chemistry* (6)—One lecture and two laboratory periods each semester. Prerequisite, Chem. 1.

An introductory survey of organic and inorganic chemistry and its application to plant and animal life.

The laboratory work in this course will be of a quantitative and synthetic nature, dealing as far as possible with agricultural material.

CHEM. 13 f. *The Chemistry of Foods* (3)—Two lectures and one laboratory period. Prerequisite, Chem. 1.

The purpose of this course is to present the principles of the chemistry of foods and nutrition with special reference to the fats, carbohydrates, proteins, enzymes, etc.

CHEM. 14 s. *Chemistry of Textiles* (3)—Two lectures and one laboratory period. Prerequisites, Chem. 1, Chem. 9.

A study of the principal textile fibres, their chemical and mechanical structure; chemical methods are given for identifying the various fibres, dyes and mordants.

For Advanced Undergraduates and Graduates

CHEM. 104 f. *General Physiological Chemistry* (4 or 6)—Two lectures and two laboratory periods. Prerequisite, Chem. 103 or its equivalent.

A study of the chemistry of the fats, carbohydrates, proteins and other compounds of biological importance, and the general chemistry of the metabolism of animals. This course is intended for students majoring in biological subjects, and as a prerequisite to certain advanced courses in this department. (Broughton.)

CHEM. 105 y. *Food Inspection and Analysis* (8)—Lectures and laboratory to be assigned. Prerequisite, Chem. 104, or acceptable courses in organic chemistry and quantitative analysis.

Lectures on the composition of foods, methods of analysis and the detection of adulteration in foods. Laboratory work includes the analysis of cereal-foods, the use of the microscope in the detection of adulterants in spices, the identification of added colors, the detection and determination of chemical food preservatives. Analysis of edible fats and oils, sugars and syrups, vinegars, flavoring extracts and beverages.

This course is designed to give preparation for the analytical work connected with the state control of the sale of foods. (Broughton.)

CHEM. 106 f or s. *Dairy Chemistry* (4)—One lecture and three laboratory periods. Prerequisite, Chem. 12.

Lectures and assigned reading on the constituents of dairy products.

This course is designed to give the student a working knowledge and laboratory practice in dairy chemistry and analysis. Practice is given in examining dairy products for confirmation to regulation under the food laws, detection of watering, detection of preservatives and added colors, and the detection of adulterants. Students showing sufficient progress may take the second semester's work, and elect to isolate and make complete analysis of the fat or protein of milk. (Broughton.)

CHEM. 107 f or s. *Tissue Analysis* (3)—One lecture and two laboratory periods. Prerequisite, Chem. 12 or its equivalent.

A discussion and the application of the analytical methods used in determining the inorganic and organic constituents of live tissue. (Broughton.)

CHEM. 108 s. *Soils and Fertilizer Analysis* (3)—One lecture and two laboratory hours. Prerequisite, Chem. 12. (Broughton.)

A complete analysis of soils and fertilizers with training in the more refined analytical procedures as applied.

CHEM. 109 s. *Chemistry of Nutrition* (4)—Two lectures and two three-hour laboratory periods each week. Prerequisites, Agricultural Chemistry 104, or its equivalent. (Broughton.)

Lectures on the chemistry of nutrition, laboratory utilization of food, determination of fuel value of food and the heat production of man under various conditions, metabolism, the effects on small animals of diets consisting of purified food constituents, and the effects of selected diets on the formation of waste products in the body.

For Graduates

CHEM. 220 f or s. *Special Problems* (4 to 8)—A total of eight credit hours may be obtained in this course by continuing the course for two

semesters. Laboratory, library and conference work amounting to ten hours each week. Prerequisite, Chem. 104 and the consent of the instructor.

This course consists of studies of special methods, such as the separation of the fatty acids from a selected fat, the preparation of certain carbohydrates or amino acids, the determination of the distribution of nitrogen in a protein. The students will choose, with the advice of the instructor, the particular problem to be studied. (Broughton.)

CHEM. 221 f or s. *Research* (5 to 10)—Agricultural chemical problems will be assigned to graduate students who wish to gain an advanced degree. (Broughton.)

F. Industrial Chemistry

For Advanced Undergraduates and Graduates

CHEM. 110 y. *Industrial Chemistry* (6)—Three lectures. Prerequisites, Chem. 1; Chem. 2.

A descriptive study of the major chemical industries, with reference especially to the general principles involved, recent development and future possibilities; factory inspection trips and reports.

CHEM. 111 y. *Industrial Chemistry Laboratory* (6)—One lecture. Two laboratory periods. Prerequisite, Chem. 110 or registration therein.

Preparation and purification of inorganic and organic substances of industrial importance, with accompanying library and patent studies.

CHEM. 112 s. *Engineering Chemistry* (3)—Three lectures. Prerequisites, Chem. 1; Chem. 2; Math. 105.

The basic scientific principles and unit processes of chemical engineering, the flow of fluids, heat transfer, mixing, drying, roasting, grinding, washing and sedimentation, filtration, evaporation, distillation and absorption; factory and research organization and management.

CHEM. 113 s. *Engineering Chemistry Laboratory* (3)—One lecture. Two laboratory periods. Prerequisite, Chem. 111 or registration therein.

Experimental study of the unit processes of chemical engineering.

CHEM. 114 y. *Engineering Chemistry* (2)—One lecture each semester. Prerequisite, Chem. 1.

A course for engineering students. Fuels and combustion, heat flow, flue gas analysis, boiler water, descriptions of illustrative chemical industries, unit processes of chemical engineering, chemical properties of engineering materials.

CHEM. 115 f. *Technology of Fuels and Power Plant Practice* (2)—Two lectures. Prerequisite, Chem. 108 or registration therein.

The chemistry of fuels and combustion and boiler-room operation.

For Graduates

CHEM. 222 y. *Cellulose Products* (2)—Two lectures. Artificial silk, leather substitute, celluloid, smokeless powder, lacquers and enamels.

CHEM. 223 y. *Silica and Silicates* (2)—Two credits. Two lectures.

The manufacture of brick, and ceramics, glass, cement, sodium silicate, ultramarine blue, abrasives and diatomaceous earth products.

CHEM. 224 y. *Research in Industrial Chemistry* (12)—Prerequisite, graduate standing and the consent of the instructor.

The investigation of special problems in industrial chemistry, and the preparation of a thesis toward an advanced degree.

CHEM. 225 y. *Chemistry Seminar* (2).

During these periods there is a discussion of the latest bulletins and scientific papers on all phases of chemistry by the graduate students and chemistry staff. Required of seniors and graduates.

COMPARATIVE LITERATURE

For Advanced Undergraduates and Graduates

The courses in Comparative Literature are, for the time being, under the direction of the Department of Modern Languages. They may be elected as partially satisfying major and minor requirements in this department. Comparative Literature 101 and 104 may also be counted toward a major or minor in English.

COMP. LIT. 101 y. *Introduction to Comparative Literature* (6)—Lectures, recitations and reports.

Survey of the background of European literature through a study in English translation of Greek, Latin, Biblical and medieval literature. Special emphasis on the development of the epic, tragedy, comedy and other typical forms of literary expression. The debt of modern literature to the Ancients is discussed and illustrated. (Zucker.)

COMP. LIT. 103 y. *Molière and the Development of Comedy* (6).

Brief survey of the origin and history of comedy before Molière. Study of Molière's complete works, followed by the tracing of his influence on later writers. Knowledge of French required. (Zucker.)

COMP. LIT. 104 y. *Ibsen and His Influence on the Modern Drama* (4).

Rapid survey of European drama in the middle of the nineteenth century. Study of Ibsen's complete works in Archer's translation, followed by the reading of modern social and symbolical plays that show Ibsen's influence. (Zucker.) (Omitted 1926-1927.)

DAIRY HUSBANDRY

D. H. 1 s. *Farm Dairying* (3)—Two lectures and one laboratory period.

Types and breeds of dairy cattle, the production and handling of milk on the farm, use of the Babcock test, starters, cottage cheese and farm buttermaking.

D. H. 2 f. *Dairy Production* (3)—Two lectures and one laboratory period.

Breeds of dairy cattle, their characteristics and adaptability. Methods of herd management, feeding and breeding operations, dairy herd im-

provement, and other factors concerned in the efficient and economical production of milk. Advanced registry requirements and dairy cattle judging.

D. H. 3 s. *Advanced Dairy Cattle Judging* (1)—One laboratory period. Comparative judging of dairy cattle. Trips to various leading dairy farms will be made. Such dairy cattle judging teams as may be chosen to represent the University will be selected from among those taking this course.

D. H. 4 y. *Dairy Manufactures and Creamery Management* (3)—One lecture and two laboratory periods. Manufacture of butter, cheese, ice cream, and the preparation of culture buttermilks. Study of cream separation, pasteurization and processing of milk and cream and refrigeration.

D. H. 5 f. *Market Milk* (4)—Three lectures and one laboratory period. The course is so planned as to cover the commercial and economic phases of market milk, relating more particularly to cost of production and distribution, processing, milk plant construction and operation, sanitation, and merchandizing. Dairy farms and commercial dairy plants will be visited and their plans of construction, arrangement of equipment and method of operation carefully studied.

D. H. 6 s. *Marketing and Grading of Dairy Products* (2)—One lecture and one laboratory period. History, development, and organization of dairy marketing from the standpoint of producer, dealer and consumers, market grades and the judging of dairy products.

D. H. 7 s. *Dairy Plant Technique* (2)—One lecture and one laboratory period. Prerequisite Dairy Bacteriology (Bact. 103) and Dairy Chemistry (Chem. 121).

This course is designed to give students practice in the application of dairy technology. Commercial dairy laboratory tests will be made and their economic value as relates to the dairy industry studied.

D. H. 8 y. *Research and Thesis* (4-6)—This work to be done by assignment and under supervision. Opportunity will be given to study and summarize the data on some special problem or to carry on original investigations in problems in Dairy Husbandry. The results of such study or problems must be presented in the form of a thesis, a copy of which shall be filed in the department library.

For Advanced Undergraduates and Graduates

D. H. 101 s. *Advanced Breed Study* (2)—One lecture and one laboratory period. Breed Association rules and regulations, important families, and individuals, pedigree studies. Work largely by assignment. (Ingham.)

D. H. 102 s. *Advanced Dairy Manufactures* (3) — Hours to be arranged as to lecture and laboratory. Prerequisite D. H. 4 Dairy Manufactures and Creamery Management.

Plant and laboratory management, storage problems. Study of costs of production, accounting systems, purchase of equipment and supplies,

market conditions, relation of the manufacturer to the shipper and dealer.

In this course the student will be required to act as helper and foreman and will be given an opportunity to participate in the general management of the dairy plant. Visits will be made to nearby creameries and ice-cream establishments. Credit in this course is not given as an index of the amount of work required. (Harvey).

D. H. 103 y. *Seminar* (2)—Students are required to prepare papers based upon current scientific publications relating to dairying or upon their research work for presentation before and discussion by the class. (Staff.)

For Graduates

D. H. 201 y. *Research*. Credit to be determined by the amount and quality of work done. Students will be required to pursue, with the approval of the head of the department, an original investigation in some phase of dairy husbandry, carry the same to completion, and report the results in the form of a thesis. (Staff.)

ECONOMICS AND BUSINESS ADMINISTRATION

Soc. Sci. 1 y. *Elements of Social Science* (6)—Credit not given unless the full-year course is completed. An orientation course in Social Science. Open to Freshmen and Sophomores. If taken by Juniors or Seniors only two credits per semester will be granted.

This course deals with the basis and nature of society; the process of social evolution; the economic organization of society; the rise of government and law as institutions; and the nature and extent of social control of man's activities. It forms the foundation upon which the principles of economics, the principles of sociology and the science of government are based.

ECON. 2 f. *Economic Geography and Industry* (3)—Three lectures.

An examination of the principal geographical phenomena which form the basis of the economic life of man. The principal natural resources utilized in modern civilization; their distribution upon the surface of the earth in characteristic regions, the development of those regions industrially; routes of trade between the major producing regions.

ECON. 3 f. *Economic History of England* (3)—Three lectures.

A study of the general development of agriculture, industry, and commerce in England from the tenth century to the present time. The course is designed to show the gradual evolution of an industrial society, and to trace those changes by which modern England has attained her present economic position.

ECON. 4 s. *Economic History of the United States* (3)—Three lectures.

Attention is given to colonial agriculture, industry and trade as an introduction to the course. After 1789 the main lines of study are the

banking, transportation and tariff history of the United States, with special attention to the development of the natural resources, the rise of manufactures, and the expansion of corporate methods in industry and trade.

ECON. 5 f or s. *Principles of Economics* (3)—Three lectures and recitations. Prerequisite, Soc. Sci. 1.

A study of the general principles of economics; production, exchange, distribution and consumption of wealth; the monetary system; public finance; land and labor problems; monopolies, taxation and other similar topics.

ECON. 5 A s. *Principles of Economics* (3)—Three lectures and recitations. The general principles of economics offered for the convenience of Agricultural students, with or without the prerequisite of Social Science 1. Open to other students as an elective.

ECON. 5 E f. *Principles of Economics* (3)—Three lectures and recitations. The general principles of economics adapted to the needs of engineering students, with or without the prerequisite of Social Science 1.

ECON. 6 s. *Practical Economic Problems* (3)—Three lectures or recitations.

A continuation of Economics 105, with emphasis on the study of modern economic problems. Among the problems discussed are the following: Foreign commerce, the business cycle, trusts, labor problems, railroads, banking reform, taxation, public ownership, socialism and social reform.

For Advanced Undergraduates and Graduates

ECON. 102 f. *Money and Credit* (3)—Three lectures and recitations. Prerequisite, Social Science 1.

A study of the nature and functions of money; standards of value and prices; credit; bank clearings and exchanges. (Cadisch.)

ECON. 103 s. *Principles of Banking* (3)—Three lectures and recitations. Prerequisite, Social Science 1.

The principles and practice of banking in relation to business; commercial banking; relation between the bank and a customer; practical operation of banks, trust companies, agricultural banks, and the Federal Reserve System. (Cadisch.)

ECON. 106 s. *Investment Principles* (3)—Three lectures and recitations. Prerequisites, Social Science 1 and other courses in economics.

This course covers the general principles of investment. The topics discussed include: classes of securities; tests of an investment; stocks and bonds; financing established businesses; promotion of new enterprises; real estate mortgages; foreign securities; Government, state and municipal bonds; bond houses; safeguarding investments; effect of income and inheritance taxes on investments. (Cadisch.)

ECON. 110 s. *Public Finance* (3)—Three lectures and recitations. Prerequisite, Social Science 1.

A study of the public expenditures, receipts, indebtedness and financial

administration, theories of public expenditures; theories of taxation; the growth and nature of public credit; the forms of public debts; federal, state and municipal budgets. (Newman.)

ECON. 115 f. *Business Organization* (3)—Three lectures and recitations. Prerequisite, Social Science 1.

A general survey of the principles of business organization and administration. Forms of organization, management of finances, of labor, of buying and selling. Credit as a factor in business. Elementary business analysis. (Stevens.)

ECON. 116 s. *Corporation Finance* (3) — Three lectures and recitations. Prerequisite, Social Science 1.

Methods employed in the promotion, capitalization, financial management, consolidation and reorganization of business corporations. (Stevens.)

ECON. 118 y. *Business Law* (6)—Three lectures and recitations each semester.

The aim of this course is to train students for practical business affairs by giving the legal information necessary to prevent common business errors. The following are some of the phases of the work: Requisites and forms of contracts and remedies for their breach; sales, passages of title, warranties; negotiable instruments, assignment and liability of signers; agency, title, abstracts, mortgages, leases, etc.

ECON. 120 y. *General Accountancy* (6)—Three lectures with problems each semester.

The fundamental principles of single and double entry bookkeeping; subsidiary records and controlling accounts; partnership accounts and adjustments; corporation accounts; types of stocks and bonds; sinking funds; voucher systems; manufacturing accounts. Preparation of balance sheet. (Stevens.)

ECON. 121 s. *Railway Transportation* (3)—Three lectures or recitations. Follows Econ. 5 E. Prerequisites, Econ. 5 or 5 A or 5 E.

Development of the railway net of the United States; railroad finance and organization; problems of railway maintenance and method of conducting transportation; theory of railway rates; personal and local discrimination; geographical location and market competition; railway agreements; regulation by State and Federal governments; recent legislation. (Newman.)

ECON. 122 s. *Public Utilities* (3)—Three lectures or recitations. Prerequisite, Econ. 5 or 5 A or 5 E.

An examination of the fundamental basis for the concept of certain forms of business as peculiarly essential to the public welfare. Problems of rates, management and finance of corporations engaged supplying electricity, gas, street railway, telegraph and telephone service to the public. Government regulation and supervision of rates and finance. (Newman.)

(For description of the following four courses, see *Agricultural Economics*, page 146.)

- A. E. 101 f. *Agricultural Economics* (3).
- A. E. 102 s. *The Marketing of Farm Products* (3).
- A. E. 103 f. *Co-operation in Agriculture* (3).
- A. E. 104 s. *Transportation of Farm Products* (3).

For Graduates

ECON. 201 y. *History of Economic Theory* (4)—Two lectures and assignments each semester. Prerequisite, Econ. 105.

History of economic doctrines and theories from the eighteenth century to the modern period, with special reference to the theories of value and distribution. (——.)

ECON. 220 y. *The Problems of Labor and Employment* (4)—Two lectures and assignments each semester. Prerequisites, general knowledge of the field of Sociology and Economics.

A study of labor from the point of view of the employer, the employee and the public; the conflicts between labor and capital; methods employed to obtain industrial peace. (——.)

EDUCATION

A. History and Principles

ED. 1 y. *Educational Guidance* (2)—One lecture a week. Required of students registered in the College of Education; elective for others.

This course is designed to assist students in adjusting themselves to the demands and problems of college and professional life and to guide them in the selection of college work during subsequent years. Among the topics discussed are the following: student finances; student welfare; intellectual ideals; recreation and athletics; general reading; student organization; student government; the curriculum; election of courses; the selection of extra curricular activities.

ED. 2 f. *Public Education in the United States* (2)—Required of all Sophomores in Education.

A study of the theory and practice of public education in the United States as it has been developed and is now organized. The emphasis will be on elementary education and secondary education, with proportionate treatment of vocational education and relations of elementary and secondary education to higher education.

ED. 3 s. *Educational Hygiene* (2)—Open to Sophomores and Juniors. Required of Sophomores in Education. Seniors taking this course will receive but one credit.

Elements of general, individual and group hygiene; causes of health and disease; habits; knowledge and ideals of health; health as an objective of education.

For Advanced Undergraduates and Graduates

ED. 101 f. *Educational Psychology* (3)—Open to Juniors and Seniors. Required of all Juniors in Education.

General characteristics and use of original tendencies; principles of mental development; the laws and methods of learning; experiments in rate of improvement; permanence and efficiency; causes and nature of individual differences; principles underlying mental tests; principles which should govern school practices. (Browning.)

ED. 102 s. *Technic of Teaching* (3)—Three lectures and one laboratory period. Open to Juniors or Seniors. Required of Juniors in Education. Prerequisite, Ed. 101.

The nature of educational objectives; steps of the lesson plan; observation and critiques; survey of teaching methods; type lessons; lesson planning; class management. (Long.)

ED. 103 s. *Principles of Secondary Education* (3)—Required of all Seniors in Education. Prerequisites, Ed. 101, Ed. 102 and full Senior standing. (Small.)

Evolution of secondary education; articulation of the secondary school with the elementary school, college, technical school, and with the community and the home; the junior high school; programs of study and the reconstruction of curricula; the teaching staff and student activities.

ED. 104 f. *History of Education* (3)—Senior Elective.

History of the evolution of educational theory, institutions and practices. Emphasis is upon the modern period. (Small.)

ED. 105 f. *Educational Sociology* (3)—Three lectures a week.

The sociological foundations of education; the major educational objectives; the function of educational institutions; the program of studies; objectives of the school subjects; group needs and demands; methods of determining educational objectives. (Cotterman.)

ED. 106 s. *Advanced Educational Psychology* (3)—Prerequisites, Ed. 101 and Ed. 102. The latter may be taken concurrently with Ed. 106.

Principles of genetic psychology; nature and development of the human organism; development and control of instincts. Methods of testing intelligence; group and individual differences and their relations to educational practice. Methods of measuring rate of learning; study of typical learning experiments. (Browning.)

ED. 107 f. *Educational Measurements* (3)—Prerequisite, Ed. 101 and Ed. 102.

A study of typical educational problems involving educational scales and standard tests. Nature of tests, methods of use, analysis of results and practical applications in educational procedure. Emphasis will be upon tests for high school subjects. (Browning.)

ED. 108 s. *Mental Hygiene* (3)—Prerequisite, an introductory course in Elementary Psychology or Educational Psychology.

Normal tendencies in the development of character and personality. Overcoming problems of adjustment to school and society; obsessions, fears, compulsions, conflicts, inhibitions and compensations. Methods of personality analysis. (Browning.)

For Graduates

ED. 201 y. *Seminar in Education* (6)—(The course is organized in semester units.)

Problems in educational organization and administration. Study of current literature; individual problems. (Small.)

ED. 202 f. *College Teaching* (3)—Three lectures a week.

Analysis of the work of the college teacher; objectives; nature of subject matter; nature of learning; characteristics of college students; methods of college teachers; measuring results; extra course duties; problems; investigations; reports. (Cotterman.)

ED. 204 s. *Chemical Education* (2)—Two lectures a week. Open to graduate students majoring in chemistry. Prerequisites, Ed. 101 and Ed. 202.

The latest developments in the field of chemical education dealing with methods, laboratory design, equipment, etc. Required of all students qualifying for college chemistry teaching. (Gordon.)

B. Methods in Arts and Science Subjects (High School)

ED. 110 y. *English in Secondary Schools* (6)—Special methods and supervised teaching. Required of seniors preparing to teach English. Prerequisites, Ed. 101 and 102.

Objectives in English in the different types of secondary schools; selection of subject matter; State requirements and State courses of study; evaluation of the course of study in terms of modern practice and group needs; the organization of the materials; lesson plans; measuring results; observations; class teaching; critiques.

ED. 111 y. *History and Civics in Secondary Schools* (6)—Special methods and supervised teaching. Required of Seniors preparing to teach history. Prerequisites, Ed. 101 and 102.

Objectives of history and civics in secondary schools; selection of subject matter; parallel reading; State requirements and State courses of study; the development of civics from the community point of view; reference books, maps, charts and other auxiliary materials; the organization of materials; lesson plans; measuring results; observations; class teaching; critiques.

ED. 112 y. *Foreign Language in Secondary Schools* (6) — Special methods and supervised teaching. Required of Seniors preparing to teach foreign language. Prerequisites, Ed. 101 and 102.

Objectives of foreign language in secondary schools; selection of subject matter; State requirements and State courses of study; the organization of material for teaching; lesson plans; special devices and auxiliary materials; observation; class teaching; critiques.

ED. 113 y. *Mathematics in Secondary Schools* (6)—Special methods and supervised teaching. Required of Seniors preparing to teach mathematics. Prerequisites, Ed. 101 and 102.

Objectives of mathematics in secondary schools; selection of subject matter; State requirements and State courses of study; proposed reorganizations; lesson plans; measuring results; observations; class teaching; critiques.

ED. 114 y. *Science in Secondary Schools* (6)—Special methods and supervised teaching. Required of Seniors preparing to teach science. Prerequisites, Ed. 101 and 102.

Objectives of science in secondary schools; selection of subject matter; State requirements and State courses of study; sources of materials; the organization of materials for instruction; methods of the class period; lesson plans; the preparation and organization of laboratory instruction; note books, observation; class teaching; critiques.

ENGINEERING

Civil Engineering

C. E. 101 f. *Elements of Railroads* (3)—Two lectures and one laboratory period. Prerequisite, Surv. 2. Required of Juniors in Civil Engineering.

The theory and practice of railroad surveys, alignment and earthwork. Preliminary steps toward complete plans for a short railroad. (Skelton.)

C. E. 102 s. *Elements of Design of Steel Structures* (5)—Four lectures and one laboratory period. Prerequisite Mech. 1, 2. Required of Juniors in Civil Engineering.

Design of steel beams and columns. Analysis of stresses in roof trusses, plate girders, bridge trusses and steel building. The preliminary steps toward complete design of these structures. (Skelton.)

C. E. 103 y. *Elements of Steel Design* (4)—One lecture and one laboratory period. Required of Juniors in Mechanical Engineering.

Design of steel beams and columns. Analysis of roof trusses, plate girders and traveling cranes. Particular application to industrial buildings. (Skelton.)

C. E. 104 y. *Design of Steel Structures* (6)—Two lectures and one laboratory period. Prerequisite, C. E. 102. Required of Seniors in Civil Engineering.

A study of the stresses in movable, cantilever, continuous, suspension and arch bridges, a continuation of C. E. 102. (Skelton.)

C. E. 105 y. *Design of Masonry Structures* (8)—Three lectures and one laboratory period. Prerequisite, Mech. 1. Required of Seniors in Civil Engineering.

The theory and practice of the design of structures of stone and of reinforced concrete; with applications to beams, slabs, columns, retaining walls, dams, arches and bridges. The preparation of plans and bills of material. (Steinberg.)

C. E. 106 y. *Highways* (8)—Three lectures and one laboratory period. Prerequisite Surv. 3, Mech. 1. Required of students in Civil Engineering.

Location, construction and maintenance of roads and pavements. Highway contracts and specifications, estimates and costs, highway work, highway legislation, highway economics and highway transportation.

The course will include, in addition to lecture and classroom work, preparation of plans and specifications for special projects connected with highways. (Johnson.)

C. E. 107 y. *Sanitation* (6)—Three lectures. Prerequisite Mech. 1. Required of Seniors in Civil Engineering.

Methods of estimating consumption and designing water supply and sewerage systems. (Pyle.)

C. E. 108 y. *Railroads* (2)—One laboratory period. Prerequisite C. E. 101. Alternative for Seniors in Civil Engineering.

The theory and practice of railroad design, construction, maintenance and economics; a continuation of C. E. 101. Field and drafting-room work consists of a reconnaissance and survey of a short railroad and preparation of the map, profiles and estimates. (Skelton.)

C. E. 109 y. *Sanitary Science (Public Health)*, (2)—One laboratory period. To be taken co-ordinately with C. E. 107. Alternative for Seniors in Civil Engineering.

State and municipal sanitary laws, organization and functions of state and municipal health departments, public health surveys. Also in co-ordination with C. E. 107; complete plans are prepared for water supply and sewerage disposal systems for a given community. (Pyle.)

C. E. 110 y. *Drainage and Irrigation* (2)—One laboratory period. Prerequisite, Mech. 1. Alternative for Seniors in Civil Engineering.

The application of engineering principles to the design and construction of drainage and irrigation works. Field and drafting-room work consists of surveying, designing and mapping of a proposed drainage project. (Pyle.)

Drafting

DR. 1 y. *Engineering Drafting* (2)—One laboratory period. Required of all Freshmen in Engineering.

Freehand Drawing—Lettering, exercises in sketching of technical illustrations and objects, proportion and comparative measurements.

Mechanical Drawing—Use of instruments, projections and working drawings, drawing to scale in pencil and in ink, topographic drawing, tracing and blue printing.

DR. 2 y. *Descriptive Geometry* (4)—Two laboratory periods. Prerequisite, Dr. 1. Required of all Sophomores in Engineering.

Orthographic projection as applied to the solution of problems, relating to the point, line and plane, intersection of planes with solids and development. Generation of surfaces; planes, tangent and normal to surfaces; intersection and development of curved surfaces. Shades and shadows, perspective, map projection.

Electrical Engineering

E. E. 101 y. *Direct Currents* (10)—Three lectures and two laboratory periods. Prerequisite, Phys. 2.

Principles of design, construction and operation of direct current generators and motors and direct current control apparatus. The construction, characteristics and operation of primary and secondary batteries and the auxiliary control equipment.

Experiments on the calibration of laboratory instruments, the manipulation of precision instruments, battery characteristics, and the operation and characteristics of direct current generators and motors. (Hodgins.)

E. E. 102 y. *Alternating Currents* (10)—Three lectures and two laboratory periods. Prerequisite, E. E. 101.

Analytical and graphical solution of problems on single phase and polyphase circuits; construction, characteristics and operation of all types of alternating current generators and motors; switchboard appliances, the use of the oscillograph; alternating current power measurements. (Creese.)

E. E. 103 y. *Electric Machine Design* (3)—One laboratory period first semester; two laboratory periods second semester. Prerequisite, E. E. 101, M. E. 101, and to take concurrently E. E. 102.

Materials of construction and design of the electric and magnetic circuits of direct current generators and motors, principles of design of the electric and magnetic circuits of alternating current generators, motors and transformers. (Hodgins.)

E. E. 104 y. *Electric Railways and Power Transmission* (7)—Three lectures first semester; three lectures and one laboratory period second semester.

Traffic studies, train schedules, motor characteristics and the development of speed-distance and power-time curves, systems of control, motors and other railway equipment, electrification system for electric railways, including generating apparatus, transmission lines, substations and distribution of electrical energy for car operation; electrification of steam roads and application of signal systems, problems in operation from the selection of proper car equipment to the substation apparatus.

Survey of the electrical equipment required in central stations and substations, transmission of electric power, practical problems illustrating the principles of installation and operation of power machinery.

E. E. 105 y. *Telephone and Telegraphs* (7)—Three lectures first semester; three lectures and one laboratory period second semester.

History and principles of magneto telephone and variable resistance transmitter, carbon transmitter, telephone receiver, induction coils, and calling equipment. These components of the telephone then are studied as a complete unit in the local battery and common battery telephones.

Magneto and common battery switchboards used in telephone exchanges, automatic telephones, and the operation of simple, duplex and quadruplex telegraphy. Solution of analytical problems on telephone transmission.

In the laboratory the units are assembled and operated. (Hodgins.)
E. E. 106 y. *Radio Telegraphy and Telephony* (7)—Two lectures and one laboratory period first semester; three lectures and one laboratory period second semester. Prerequisite E. E. 101 and to take concurrently E. E. 102.

Principles of radio telegraphy and telephony, design, construction and operation of transmitting and receiving apparatus and special study of the use of the vacuum tube for short wave transmitting and receiving. Experiments include radio frequency measurements and the testing of various types of receiving circuits. (Creese.)

E. E. 107 y. *Illumination* (7)—Three lectures first semester; three lectures and one laboratory period second semester. Prerequisite E. E. 101, and to take concurrently E. E. 102.

Series systems of distribution, methods of street lighting, calculation of voltage drop, regulation, weights of wire and methods of feeding parallel systems, principles and units used in illumination problems, lamps and reflectors, candle-power measurements of lamps, measurement of illumination intensities and calculations for illumination of laboratories and classrooms. (Creese.)

General Engineering Subjects

ENGR. 1 y. *Prime Movers* (5)—Three lectures first semester, two lectures second semester. Prerequisite, Math. 6. Required of all Juniors in Engineering.

Salient features of the operation of steam, gas, hydraulic and electric prime movers and pumps. Comparison of types of each, methods of assembling or setting up in place for operation. Service tests.

ENGR. 2 y. *Engineering Geology* (2)—One laboratory period. Lectures and field trips. Required of all Juniors in Engineering.

Study of common rocks and minerals, geologic processes and conditions affecting problems of water supply, bridge, railroad and highway construction, dams and reservoirs, tunnels, canals, river and harbor improvements, irrigation works and rock excavation. (Ladd.)

ENGR. 3 s. *Public Utilities* (1)—One lecture. Prerequisite, Econ. 8. Required of all Seniors in Engineering.

The development of public utilities, franchises, functions, methods of financing and control of public utilities. Service standards and their attainment in electric, gas, water, railway, and other utilities. The principles that have been adopted by the courts and public service commissions for the evaluation of public utilities for ratemaking and other purposes. (Newman.)

ENGR. 101 f. *Engineering Jurisprudence* (1)—Seminar course. Required of all Seniors in Engineering.

A study of the fundamental principles of law relating to business and to engineering; including contracts, agency, sales, negotiable instruments, corporations and common carriers. These principles are then applied to the analysis of general and technical clauses in engineering contracts and specifications. (Steinberg.)

IND. CHEM. 27 y. *Engineering Chemistry* (2)—One laboratory period second semester. Prerequisite, Math. 6. Required of all Seniors in Engineering.

The value of fuels, coal, oils and gases, from their chemical analysis. The significance of flue gas analysis. Comparison of specifications, particularly chemical requirements, of various states, manufacturers and large corporations for fuels, lubricating oils and paints.

Mechanics

MECH. 1 y. *Engineering Mechanics* (8)—Three lectures and one laboratory period first semester. Prerequisite, Math. 6. Required of all Juniors in Engineering.

Applied Mechanics—The analytical study of statics dealing with the composition and resolution of forces, moments and couples, machines and the laws of friction, dynamics, work, energy and the strength of materials.

Graphic Statics—The graphic solution of problems in mechanics, center of gravity, moments of inertia and determination of stresses in frame structures.

Elements of Hydraulics—Flow of water in pipes, through orifices and in open channels. Determination of the co-efficient of discharge, velocity and contraction in pipes and orifices.

MECH. 2 s. *Materials of Engineering* (2)—Two laboratory periods. Prerequisite, to take concurrently Mech. 1. Required of all Juniors in Engineering.

The composition, manufacture and properties of the principal materials used in engineering and of the conditions that influence their physical characteristics. The interpretation of specifications and of standard tests. Laboratory work in the testing of steel, wrought iron, timber, brick, cement and concrete.

MECH. 3 f. *Kinematics* (3)—Two lectures and one laboratory period. Prerequisite, Math. 6. Required of Juniors in Mechanical Engineering.

The theory and practice of the kinematics of machinery, as applied to ropes, belts, chains, gears and gear teeth, wheels in trains, epicyclic trains, cams, linkwood, parallel motions. Miscellaneous mechanisms and aggregate combinations.

MECH. 101 f. *Thermodynamics* (3)—Three lectures. Prerequisites, Phys. 2, Engr. 1. Required of Seniors in Mechanical and Electrical Engineering.

MECH. 102 y. *Thermodynamics* (6)—Three lectures. Prerequisite, Physics 2, Engr. 1. Required of Seniors in Mechanical Engineering.

Thermodynamics as applied to properties of gases, cycles of heat, engines using gases. Properties of vapors. Entropy. The internal combustion engine. The steam turbine. Flow of fluids, and the application of thermodynamics to compressed air and refrigerating machinery.

Mechanical Engineering

M. E. 101 f. *Elements of Machine Design* (1)—One laboratory period. Prerequisite, Math. 6. Required of Juniors in Electrical Engineering.

Empirical design of machine parts.

M. E. 102 s. *Elements of Machine Design* (3)—Two lectures and one laboratory period. Prerequisite, Math. 6. Required of Juniors in Mechanical Engineering.

The application of the principles involved in determining the proportions and forms of machine parts. The design of bolts, screws, shafting and gears. (Hoshall.)

M. E. 103 y. *Design of Prime Movers* (6)—Two lectures and one laboratory period first semester. Prerequisite, M. E. 102 and Engr. 1. Required of Seniors in Mechanical Engineering.

Analysis of the stresses in gas and steam engines. Proportioning the essential parts and estimating the cost of each. The steam boiler; its design and cost. (Nesbit.)

M. E. 104 s. *Design of Power Plants* (3)—Two lectures and one laboratory period. Prerequisites, Engr. 1, Mech. 101, M. E. 102. Required of Seniors in Mechanical Engineering.

The design of a complete power plant, including the layout of building and installation of equipment. The selection of types and capacities of the various units required. (Nesbit.)

M. E. 105 f. *Design of Pumping Machinery* (3)—Two lectures and one laboratory period. Prerequisite, M. E. 102 and Mech. 1, 2. Required of Seniors in Mechanical Engineering.

Design of double-acting steam pumps and centrifugal pumps. Vacuum, condenser and water works pumps.

M. E. 106 s. *Engineering Finance* (2)—Two lectures. Required of Seniors in Mechanical Engineering.

Financial problems of the engineer. Cost segregation and cost analysis. Basis of price and rates. Fixed charges and operating costs. Replacement cost. Depreciation. Maintenance. Taxes and insurance. Unit cost determination. Determination of size of system for best financial efficiency. (Nesbit.)

M. E. 107 y. *Mechanical Laboratory* (2)—One laboratory period. Prerequisites, Engr. 1; Mech. 1, 2. Required of Seniors in Mechanical Engineering.

Calibration of instruments, gauges, indicator springs, planimeters, steam, gas and water meters.

Indicated and brake horsepower of steam and internal combustion engines, setting of plain valves, corliss valves. Tests for economy and capacity of boilers, engines, turbines. Pumps and other prime movers. Feed water heaters, condensers; B. T. U. analysis of solid, gaseous and liquid fuels and other complete power plant tests.

M. E. 108 f. *Heating and Ventilation* (2)—Two lectures. Prerequisites, Engr. 1, and Mech. 1, 2. Required of Seniors in Mechanical Engineering.

The principles and methods of construction in use in various systems of heating and ventilating; the design, erection and operation of heating plants.

Shop

SHOP 1 y. *Shop and Forge Practice* (2)—One laboratory period. Required of all Freshmen in Engineering.

The use and care of wood working tools, exercise in sawing, planing, mortising, tenoning and laying out work from blueprints. Principles of patternmaking with sufficient foundry practice to demonstrate the uses of patternmaking. Forging of iron and steel, welding and making of steel tools.

SHOP 2 f. *Machine Shop Practice* (1)—One laboratory period. Prerequisite, Shop 101. Required of all Sophomores in Engineering.

SHOP 3 s. *Machine Shop Practice* (2)—Two laboratory periods. Prerequisite, Shop 2. Required of Sophomores in Mechanical and Electrical Engineering.

Study and practice with various machines used in machine shops, principles of turning, planing, drilling, screw cutting and filing.

SHOP 4 s. *Foundry Practice* (1)—One laboratory period. Prerequisite, Shop 3. Required of Juniors in Mechanical Engineering.

Molding in brass and iron. Coremaking. The cupola and its management. Lectures on selection of iron by fracture, fuels and the mixing and melting of metals.

Surveying

SURV. 1 f. *Plane Surveying* (1)—Lecture and laboratory work. Prerequisite, Math. 3. Required of all Sophomores in Engineering.

SURV. 2 s. *Plane Surveying* (2)—Lecture and laboratory work. Prerequisite, Surv. 1. Required of Sophomores in Civil Engineering.

The theory and practice of plane surveying; including the use and adjustment of the transit, level, plane table and minor surveying instruments. Solution of practical problems in giving lines and grades for buildings, shafting and foundations, and in laying out curves. The computation of area and of earthwork, and the principles of plan and map making and map reading.

SURV. 3 f. *Advanced Surveying* (3)—One lecture and two laboratory periods. Prerequisite, Surv. 1-2. Required of Juniors in Civil Engineering.

Practical astronomy and geodetic surveying. The determination of latitude, longitude and azimuth by stellar and by solar observations. Base-line measurement and precise triangulation. City surveying. Hydrographic surveying.

ENGLISH LANGUAGE AND LITERATURE

ENG. 1 y. *Composition and Rhetoric* (6)—Freshman year. Prerequisite, three units of high school English. Required of all four-year students.

Parts, principles and conventions of effective thought communication. Reading, study and analysis of standard contemporary prose specimens. Original exercises and themes.

ENG. 2 y. *Elements of Literature* (6)—Three lectures. Prerequisite, three units of high school English.

Examination of the principles of literary form. Study and interpretation of selected English and American classics.

ENG. 3 f. *Advanced Composition and Rhetoric* (2) — Prerequisite, Eng. 1. Optional with Eng. 5-6 as a requirement for all students whose major is English.

Study and analysis of the best scientific essays as a basis of class papers.

ENG. 4 s. *Advanced Composition and Rhetoric* (2)—Continuation of Eng. 3. Prerequisite, Eng. 3.

ENG. 5 f. *Expository Writing* (2)—Prerequisite, Eng. 1. Optional with Eng. 3-4 as a requirement for all students whose major is English.

Study of the principles of exposition. Analysis and interpretation of material bearing upon scientific matter. Themes, papers and reports.

ENG. 6 s. *Expository Writing* (2).

Continuation of Eng. 5. Prerequisite, Eng. 5.

ENG. 7 f. *History of English Literature* (3)—Three lectures. Prerequisite, Eng. 1. Required of all students whose major is English.

A general survey, with extensive reading and class papers.

ENG. 8 s. *History of English Literature* (3).

Continuation of Eng. 7. Prerequisite Eng. 1.

ENG. 9 f. *American Literature* (by types) (3)—Three lectures. Not given in 1926-1927.

Lectures on the development of American literary types. Reports on assigned topics. Term themes. Special attention will be paid to the growth in America of lyric poetry, epic poetry, the drama, the ballad, the historical account, oration, biography, letters, essays, novel and short story.

ENG. 10 s. *American Literature* (3).

Continuation of Eng. 9.

ENG. 11 f. *Modern Poets* (3)—Three lectures. Prerequisite, Eng. 1.

English and American poets of the latter part of the Nineteenth and of the Twentieth Century.

ENG. 12 s. *Modern Poets* (3).

Continuation of Eng. 11. Prerequisite, Eng. 1 and 11.

ENG. 13 f. *The Drama* (3)—Prerequisite, Junior standing.

A study of successful plays in the development of British drama before 1890. Reports and term themes.

ENG. 14 s. *Drama* (3)—Continuation of Eng. 13. Prerequisite, Junior standing.

A rapid survey of the development of American drama before 1890. The reading and contemporary English and American plays. Reports and term themes.

ENG. 15 f. *Shakespeare* (3)—Three lectures. Prerequisite, Eng. 1.

An intensive study of selected plays.

ENG. 16 s. *Shakespeare* (3).

Continuation of Eng. 15. Prerequisite, Eng. 1 and 15.

ENG. 17 f. *Business English* (2)—Two lectures. Prerequisite, Eng. 1.

This course develops the best methods of effective expression, both oral and written, used in business relations.

ENG. 18 s. *Business English* (2).

Continuation of Eng. 17. Prerequisites, Eng. 1 and 17.

For Advanced Undergraduates and Graduates

ENG. 118 y. *Literature of the Fourteenth Century* (4)—Prerequisite Eng. 7.

Lectures and assigned readings in English literature at the close of the Middle Ages and the beginning of the Renaissance in England, including the metrical romances, ballads and selections from Langland, Gower and Chaucer. (Hale.)

ENG. 119 y. *Anglo-Saxon and Middle English* (6)—Required of all students whose major is English.

A study of Anglo-Saxon (Old English) grammar and literature. Lectures on the principles of comparative philology and phonetics. (Harman.)

ENG. 122 f. *The Novel* (2)—Two lectures.

Lectures on the principles of narrative structure and style. Class reviews of selected novels, chiefly from English and American sources. (House.)

ENG. 123 s. *The Novel* (2).

Continuation of Eng. 122. (House.)

ENG. 124 f. *English and American Essays* (2)—Two lectures.

A study of the philosophical and critical essays of England and America; Bacon, Lamb, Macaulay, Carlyle, Ruskin, Emerson, Chesterton. (House.) (Omitted in 1925-1926.)

ENG. 125 s. *Authorship* (2)—Two lectures. Admission to class on recommendation of instructor.

Practice in the making of literature of various types: verse, essay, fiction, drama. (House.)

- ENG. 126 f. *Victorian Poets* (2).
Studies in the poetry of Tennyson, Browning, Arnold, Swinburne and others.
- ENG. 127 s. *Victorian Poets* (2).
Continuation of Eng. 126. (Omitted in 1926-1927.) (House.)
- ENG. 129 f or s. *College Grammar* (2). Required of all students whose major is English. The course is completed each semester.
Studies in the descriptive grammar of modern English, with some account of the history of forms. (House.)
- ENG. 130 s. *The Old Testament as Literature*. One lecture.
A study of the sources, development, and the literary types in the King James version of the Bible. (Hale.)

For Graduates

- ENG. 201. *Seminar*—Credit proportioned to the amount of work and ends accomplished. (House.)
Original research and the preparation of dissertations looking toward advanced degrees.
- ENG. 202 y. *Beowulf* (4)—Prerequisite, Eng. 119.
Critical study of grammar and versification, with some account of the legendary lore. (House.) (Omitted in 1926-1927.)
- ENG. 203 f. *Middle English* (2)—Prerequisite, Eng. 119.
A study of excerpts of the Middle English period, with reference to etymology and syntax. (House.)
- ENG. 204 s. *Gothic* (2)—Prerequisite, Eng. 119.
A study of the forms and syntax, with readings from the Ulfilas Bible. Correlation of Gothic speech sounds with those of Old English. (House.)

ENTOMOLOGY

- ENT. 1 s. *General Entomology* (3)—Two lectures and one laboratory.
The relations of insects to past experience and future activities of the student. General principles of structural and systematic entomology. Field work and the preparation of a collection of insects. (Open to freshmen.)
- ENT. 2 f. *Insect Morphology* (3)—One lecture and two laboratory periods.
A study of the structure of insects, with special emphasis on the structures used in classification of the important orders. In preparation for systematic entomology (Ent. 3s). Prerequisite, Entomology 1 s.
- ENT. 3 s. *Systematic Entomology* (2)—Two laboratory periods.
Field work and the classification of the more important orders of insects. Brief amount of work on the literature of systematic entomology. Short study of the minor orders. Prerequisite, Entomology 2 f.
- ENT. 4 y. *Thesis*.

The intensive investigation of some entomological subject, the results of which are submitted as part of the requirement for graduation.

ENT. 5 s. *Insecticides and Their Application* (2)—One lecture and one laboratory.

The principles of insecticides, their chemistry, preparation and application; construction, care and use of spray and dusting machinery; fumigation, methods and apparatus in mechanical control.

ENT. 6 f. *Medical Entomology* (2)—Two lectures.

The relation of insects to disease, directly and as vectors of pathogenic organisms. The control of pests of man. (Not offered in 1926.)

ENT. 7 y. *Entomological Technique and Scientific Delineation* (2).

Collecting, rearing, preserving and mounting of insects. The preparation of exhibits, materials for instruction, entomological records. Methods of illustrating, including drawing, photography, lantern slide making and projection. Useful for prospective teachers of biology as well as for the entomological student.

ENT. 8 s. *Horticultural Entomology* (3)—Two lectures and one laboratory period.

Lectures, field and laboratory work on the morphology, biology and control of insect pests of horticultural crops. Prerequisite, Entomology 1 s.

Courses for Advanced Undergraduates and Graduates

ENT. 101 y. *Economic Entomology* (3)—Three lectures.

An intensive study of the problems of applied entomology, including life history, ecology, behavior, distribution, parasitism and control.

ENT. 102 y. *Economic Entomology* (2)—Two laboratory periods.

Expansion of Ent. 101 y to include laboratory and field work in economic entomology.

ENT. 103 y. *Seminar* (1)—Time to be arranged.

Presentation of original work, book reviews and abstracts of the more important literature.

ENT. 104 y. *Insect Pests of Special Groups* (4).

A study of the principal insects of one or more of the following groups, founded upon food preferences and habitat. The course is intended to give the general student a comprehensive view of the insects that are of importance in his major field of interest and detailed information to the student specializing in entomology.

Insect Pests of: 1. Fruit. 2. Vegetables. 3. Flowers, both in the open and under glass. 4. Ornamentals and Shade Trees. 5. Forests. 6. Field Crops. 7. Stored Products. 8. Live Stock. 9. The Household. Nos. 1 and 2 offered in 1926 and such others as requests may indicate to be in demand.

Graduate Students

ENT. 201. *Entomological Problems* (2).

Studies of minor problems in morphology, taxonomy and applied entomology, with particular reference to preparation for individual research. (Cory.)

ENT. 202 y. *Research in Entomology* (6-10).

Advanced students having sufficient preparation, with the approval of the head of the department, may undertake supervised research in morphology, taxonomy or biology and control of insects. Frequently the student may be allowed to work on Station or State Horticultural Department projects. The student's work may form a part of the final report on the project and be published in bulletin form. A report, suitable for publication, must be submitted at the close of the studies and the time and place of its publication will be determined by the professor in charge of the work. (Cory.)

FARM FORESTRY

FOR. 1 s. *Farm Forestry* (3)—Two lectures and one laboratory period. Senior year. Prerequisite, Bot. 101.

A study of the principles and practices involved in managing woodlands on the farm. The course covers briefly the identification of trees, forest protection, management, measurement and utilization of forest crops, nursery practice and tree planting. The work is conducted by means of lectures and practice in the woods.

FARM MANAGEMENT

F. M. 1 s. *Farm Accounting* (3)—Two lectures and one laboratory period. Open to Juniors and Seniors.

A concise practical course in the keeping of farm accounts and in determining the cost of farm production.

F. M. 2 f. *Farm Management* (4)—Four lectures.

The business of farming from the standpoint of the individual farmer. This course aims to connect the principles and practice which the student has acquired in the several technical courses and to apply them to the development of a successful farm business. Prerequisite, F. M. 1 s.

See also Agricultural Economics, Page 145.

FARM MECHANICS

F. MECH. 101 f. *Farm Machinery* (3)—Two lectures and one laboratory period.

A study of the design and adjustments of modern horse and tractor-drawn machinery. Laboratory work consists of detailed study of actual machines, their calibration, adjustment and repair.

F. MECH. 102 s. *Gas Engines, Tractors and Automobiles* (4)—Three lectures and one laboratory period.

A study of the design and operation of the various types of internal combustion engines used in farm practice.

F. MECH. 103 f. *Advanced Gas Engines* (2)—One lecture and one laboratory period. Prerequisite, F. Mech. 102.

An advanced study of the four-cylinder gasoline engine.

F. MECH. 104 f. *Farm Shop Work* (1)—One laboratory period.

A study of practical farm shop exercises offered primarily for prospective teachers of vocational agriculture.

F. MECH. 105 f. *Farm Buildings* (2)—Two lectures.

A study of all types of farm structures, also of farm heating, lighting, water supply and sanitation systems.

F. MECH. 107 s. *Farm Drainage* (2)—One lecture and one laboratory period.

A study of farm drainage systems, including theory of tile under-drainage, the depth and spacing of laterals, calculation of grades and methods of construction. A smaller amount of time will be spent upon drainage by open ditches, and the laws relating thereto.

FRENCH

FRENCH 1 y. *Elementary French* (8)—Four recitations. No credit given unless both semesters are completed. Students who offer two units in French for entrance, but whose preparation is not adequate for second-year French, may receive half credit for this course.

Drill upon pronunciation, elements of grammar; composition, conversation, easy translation.

FRENCH 2 y. *Second-Year French* (6)—Three recitations. Prerequisite, French 1 or equivalent.

Study of grammar continued; composition, conversation, translation. Texts selected from modern prose.

FRENCH 11 y. *The French Novel* (6)—Three recitations.

A number of French novels read in historical sequence. This course alternates with French 12 y.

FRENCH 12 y. *French Drama* (6)—Three recitations.

Rapid reading of representative French dramas selected from the classical period of modern times. This course alternates with French 11 y. (Omitted 1926-1927.)

For Advanced Undergraduates and Graduates

FRENCH 101 y. *History of French Literature in the Seventeenth and Eighteenth Centuries* (6)—Three lectures and recitations. Prerequisite, French 11 or French 12. (Silin.) (Omitted in 1926-1927.)

FRENCH 102 y. *History of French Literature in the Nineteenth and Twentieth Centuries* (6)—Three lectures and recitations. Prerequisite, French 11 or French 12. (Silin.)

For Graduates

FRENCH 201 y. *The Renaissance in France* (6)—Three lectures and recitations. (Silin.)

FRENCH 202 y. *French Philology* (6)—Three lectures and recitations. (Silin.) (Omitted in 1926-1927.)

FRENCH 206 y. *Research and Thesis*—Credits determined by work accomplished. (Silin.)

NOTE—Courses 101, 102 and 201 are conducted entirely in French; a practical command of the language is required.

Attention is also called to Comparative Literature 102, *Molière and the Development of Comedy*.

GENETICS

(A description of courses in Genetics may be found under Agronomy and Animal Husbandry)

GEOLOGY

GEOL. 1 f. *Geology* (3)—Two lectures and one laboratory period.

A textbook, lecture and laboratory course, dealing with the principles of geology and their application to agriculture. While this course is designed primarily for agricultural students in preparation for technical courses, it may also be taken as part of a liberal education.

GERMAN

GERMAN 1 y. *Elementary German* (8)—Four recitations. No credit given unless both semesters are completed. Students who offer two units in German for entrance, but whose preparation is not adequate for second-year German, may receive half credit for this course.

The elements of German grammar, reading of easy prose, oral practice.

GERMAN 2 y. *Second-Year German* (6)—Three recitations. Prerequisite, German 1 or equivalent.

Reading of narrative and technical prose, grammar review, oral and written practice.

GERMAN 3 y. *Advanced German* (6)—Three recitations. Prerequisite, German 2 or equivalent.

Rapid reading of modern dramas and novels by Hauptmann, Sudermann, Fulda, Frenssen, Ernst and others.

For Advanced Undergraduates and Graduates

GERMAN 101 y. *History of German Literature* (6)—Three recitations. Prerequisite, German 3 or equivalent.

A survey course in German literature, with especial stress on the two periods of bloom. (Zucker.)

GREEK

GREEK 1 y. *Elementary Greek* (8)—Four lectures or recitations each semester.

Drill and practice in the fundamentals of Greek grammar and the acquisition of a vocabulary, with translation of simple prose.

GREEK 2 y. *Greek Grammar, Composition and Translation of Selected Prose Work* (8)—Four lectures or recitations each semester. Prerequisite, Gk. 1 or two entrance units in Greek.

HISTORY

H. 1-2 y. *Modern European History* (6)—Lectures, recitations and assignments each semester.

The object of the course is to acquaint students with the chief events in European History during the modern period. The lectures are arranged so as to present a comparative and contrastive view of the most important events during the period covered.

H. 3-4 y. *American History* (6)—Lectures, recitations and assignments. Open to Sophomores and advanced undergraduates.

An introductory course in American History from the discovery of the New World to the present time. (Crothers.)

H. 5-6 y. *History of England and Greater Britain* (6)—Lectures, recitations and assignments. Open to Freshmen and others.

A survey course of English History.

For Advanced Undergraduates and Graduates

H. 101 f. *American Colonial History* (3)—Three lectures and assignments. (Crothers.)

A study of the political, economic and social development of the American people from the discovery of America through the formation of the Constitution.

H. 102 s. *Recent American History* (3) — Lectures and recitations. (Crothers.)

The history of national development from the close of the reconstruction period to the present time.

H. 103 f. *Latin American Republics* (2).

Influence of the United States in Central and South America. The Monroe Doctrine. The Pan-American Union. (Schulz.)

H. 104 s. *History of Maryland* (2)—Two lectures or recitations.

A study of the Colony of Maryland and its development into statehood. (Spence.)

H. 105 f. *Ancient Civilization* (3) — Three lectures or recitations. Required of students taking a major or minor in Classical Languages.

Treatment of ancient times, including Geography, Mythology and Philosophy. (Spence.)

For additional courses in this field see courses listed under *Political Science*, particularly Pol. Sci. 110 and Pol. Sci. 120.

HOME ECONOMICS

H. E. 1 y. *Elementary Foods* (6)—One recitation and two laboratory periods. Prerequisite, Inorganic Chemistry.

Principles and processes of Cookery. Production and composition of foods. Planning and serving of meals.

H. E. 2 f. *Textiles and Clothing* (2)—One recitation and one laboratory period.

History of Textile Fibers; identification of textile materials; variation of weave in regard to beauty and strength; use and value of fibers for clothing and household furnishings, clothing economics.

H. E. 3 s. *Textiles and Clothing* (1)—One lecture. Prerequisite, H. E. 2 f.

Review of fundamental stitches; darning and patching; practice in hand and machine sewing; use of machine attachments; study of commercial patterns.

H. E. 4 f. *Composition and Design* (3)—Three laboratory periods.

Space division and space relation; color schemes and exercises; original designs in which lines, values and colors are put together to produce fine harmony; perspective principles.

H. E. 5 s. *Still Life* (1)—Drawing from objects in charcoal and color. Emphasis on form, light and dark perspective. Offered alternate years.

H. E. 6 s. *Figure Sketching* (1)—Alternates with Still Life.

From a posed figure in charcoal and pencil. Emphasis on action, form and value relation.

H. E. 7 s. *Costume Design* (3)—One lecture and two laboratory periods. Prerequisite H. E. 4 f.

Appropriate dress; application of color, harmony and proportion of parts to costumes designed in ink and water color; history of costume.

For Advanced Undergraduates

H. E. 100 f. *Nutrition* (3)—Three recitations. Prerequisite H. E. 1 and Chemistry of Foods.

Food requirements and metabolism. Diets for the normal person.

H. E. 101 s. *Nutrition* (3)—One lecture and two laboratory periods. Prerequisite H. E. 100 f.

Diets and metabolism of the abnormal person; invalid cookery; feeding of children.

H. E. 102 F. *Preservation and Demonstration of Foods* (3)—One lecture and two laboratory periods. Prerequisite H. E. 1 y.

Canning and Preserving; field practice in demonstration.

H. E. 103 s. *Advanced Foods* (3)—One lecture and two laboratory periods. Prerequisite H. E. 1 y.

Experimental work in foods and cookery; fancy cookery; catering.

H. E. 104 f. *Marketing and Buying* (3)—Two lectures and one laboratory period.

Food budgets and accounts. Selection, purchasing and care of foods for the family. Lectures will be given by specialists in the Department of Dairy Husbandry, Animal Husbandry and Horticulture, in the College of Agriculture, on the choice and care of dairy products, meats, vegetables and fruits.

H. E. 105 f. *Home Management and Mechanics of the Household* (3) Three recitations.

The operation and maintenance of the household; its furnishings and equipment. Lectures on heating, lighting, plumbing, wood finishes and all mechanics of the household, as applied to average rural or city dwellings, will be given by the staff of the College of Engineering.

H. E. 106 f or s. *Practice House* (3)—Six to eight weeks experience in keeping house in a household of six students.

H. E. 107 y. *Institutional Management* (6)—Three recitations.

The organization and management of institutional dining halls, dormitories and laundries, and of commercial cafeterias, tearooms and restaurants.

H. E. 108 f. *Advanced Institutional Management* (3)—Prerequisite H. E. 107 y.

Practice work in the University Dining Hall.

H. E. 109 s. *Advanced Institutional Management* (3) — Prerequisite

H. E. 108 f. One recitation weekly and individual conferences with instructor.

Special problems in Institutional Management.

H. E. 110 y. *Pattern Designing and Dressmaking* (6)—One lecture and two laboratory periods. Prerequisite H. E. 2 f-3 s.

Drafting, cutting, fitting and designing of patterns. Construction of woolen dress from pattern designed in class, construction of silk dress, made-over dress, dinner or evening gown. Clothing Economics.

H. E. 111 f. *Advanced Clothing* (2)—Two laboratory periods. Prerequisite H. E. 110 y.

Designing and dress construction continued. Special problems in fitting worked out.

H. E. 112 f or s. *Millinery* (2)—Two laboratory periods. Prerequisite H. E. 110 y.

Millinery stitches and simple trimming; drafting of patterns for hats; making and covering of frames; making hats in velvet, silk, straw and transparent materials; renovation of materials.

H. E. 113 f. *Home Architecture and Interior Decoration* (3)—Two lectures and one laboratory period. Prerequisite H. E. 5 s.

Styles of architecture; application of colors in Home Decorations; furnishings from a sanitary, economical and artistic point of view.

H. E. 114 s. *Art and Handicraft* (1)—One laboratory period.

Review of fancy stitches applied in embroidery, lace and stencils, to lamp shades, table runners, etc.

H. E. 115 s. *Basketry* (1)—One laboratory period.

A study of the various weaves and their application in reed pieces; manipulation of materials in raffia work.

H. E. 116 s. *Seminar* (3)—Three lecture periods.

Book reviews and abstracts from scientific papers and bulletins relating to Home Economics, together with criticisms and discussion of the work presented.

HOME ECONOMICS EDUCATION

H. E. Ed. 100 y. *Education of Women* (4).

History of the family; the effect of civilization upon the organization of the home and the status of its members; educational opportunities for women; training for citizenship, professions and the home. (McNaughton.)

H. E. Ed. 101 y. *Teaching Secondary Vocational Home Economics: Methods and Practice* (6)—Prerequisite Ed. 104.

Objectives of vocational home economics; the Smith-Hughes law and its administration; a survey of the needs of the high school girl; adaptation of the state course of study to the needs of the community; methods of instruction; use of the home project; use of illustrative material; improvement of home economics library; study of equipment; outline units of instruction; lesson plans; observation; participation teaching, conferences and critiques. (McNaughton.)

H. E. Ed. 102 f. *Child Care and Welfare* (3)—Prerequisite Ed. 103 or its equivalent.

A study of the physical and mental life of the child, including behavior problems, attitudes and habits. (McNaughton.)

HORTICULTURE

A. Pomology

HORT. 1 f. *Elementary Pomology* (3)—Two lectures and one laboratory period.

A general course in pomology. The proper location and site for an orchard are discussed. Varieties, planting plans, inter-crops, spraying, cultural methods, fertilizing methods, thinning, picking, packing and marketing are also given consideration. The subjects are discussed for apples, peaches, pears, plums, cherries and quinces. The principles of plant propagation as applied to pomology are discussed.

HORT. 2 f. *Systematic Pomology* (3)—Two lectures and one laboratory period. Prerequisite, Hort. 101.

The history, botany and classification of fruits and their adaptation to Maryland conditions. Exercises are given in describing and identifying the leading commercial varieties of fruits. Students are required to help set up the fruit show each year. Designed for undergraduate or graduate students.

HORT. 3 f. *Advanced Practical Pomology* (1)—Senior year. Prerequisite, Hort. 102 and 103.

A trip occupying one week's time will be made through the principal fruit regions of eastern West Virginia, Maryland and Pennsylvania. A visit to the fruit markets of several large cities will be made. The cost of this trip should not exceed thirty dollars to each student. Each student will be required to hand in a detailed report covering the trip. The time for taking this trip will be arranged yearly with each class.

HORT. 4 s. *Small Fruit Culture* (2)—One lecture and one laboratory period.

The care and management of small fruit plantations. Varieties and their adaptation to Maryland soils and climate, packing, marketing and a study of the experimental plots and varieties on the Station grounds. The following fruits are discussed: the grape, strawberry, blackberry, blackcap raspberry, red raspberry, currant, gooseberry, dewberry and loganberry.

HORT. 5 f. *Fruits and Vegetable Judging* (2)—Two laboratory periods. Prerequisites, Hort. 101 and 111.

A course designed to train men for fruit-judging teams and practical judging. Students are required to know at least one hundred varieties of fruit, and are given practice in judging single plates, largest and best collections, boxes, barrels and commercial exhibits of fruits and vegetables. Students are required to help set up the college horticultural show each year.

HORT. 6 f. *Advanced Fruit Judging* (1)—One laboratory period. Prerequisite, Hort. 5.

B. Vegetable Crops

HORT. 11 s. *Principles of Vegetable Culture* (3)—Two lectures and one laboratory.

A study of fundamental principles underlying all garden practices. Each student is given a small garden to plan, plant, cultivate, spray, fertilize, harvest, etc.

HORT. 12 f. *Tuber and Root Crops* (2)—One lecture and one laboratory period. Prerequisite, Hort. 111. Open to Seniors and graduates.

A study of white potatoes and sweet potatoes, considering seed varieties, propagation, soils, fertilizers, planting, cultivation, spraying, harvesting, storing and marketing.

HORT. 13 s. *Advanced Truck Crop Production* (2) — Prerequisites, Hort. 112, 113 and 114.

A trip of one week is made to the commercial trucking section of Maryland, Delaware, New Jersey and Pennsylvania. A study of the markets in several large cities is included in this trip. Students are required to hand in a detailed report of the trip. Such a trip should not exceed thirty dollars per student. The time will be arranged each year with each class.

HORT. 14 s. *Vegetable Forcing* (3)—Two lectures and one laboratory period. Prerequisite, Hort. 111.

All vegetables used for forcing are considered. Laboratory work in sterilization and preparation of soils, cultivation, regulation of temperature and humidity, watering, training, pruning, pollination, harvesting, packing and marketing.

C. Floriculture

HORT. 21 f. *General Floriculture* (2)—One lecture and one laboratory period.

The management of greenhouse; the production and marketing of florists' crops; retail methods; plants for house and garden. Given every even year.

HORT. 22 y. *Greenhouse Management* (6)—Two lectures and one laboratory period.

A consideration of the methods employed in the management of greenhouses, including the operations of potting, watering, ventilating, fumigation and methods of propagation.

HORT. 23 y. *Floricultural Practice* (4)—Two laboratory periods.

Practical experience in the various greenhouse operations of the fall, winter and spring seasons.

HORT. 24 s. *Greenhouse Construction* (2)—One lecture and one laboratory period.

The various types of houses, their location, arrangement, construction, and cost; principles and methods of heating; preparation of plans and specifications for commercial and private ranges. This course is given every even year.

HORT. 25 y. *Commercial Floriculture* (6)—Two lectures and one laboratory period. Prerequisite, Hort. 22.

Cultural methods of florists' bench crops and potted plants, the marketing of the cut flowers, the retail store, a study of floral decoration.

HORT. 26 f. *Garden Flowers* (3)—Two lectures and one laboratory period.

Plants for garden use; the various species of annuals, herbaceous perennials, bulbs, bedding plants and roses and their cultural requirements. This course is given every odd year.

HORT. 27 s. *Floricultural Trip* (1)—Prerequisite Hort. 22.

A trip occupying one week's time will be made through the principal floricultural sections, including Philadelphia and New York, visiting greenhouse establishments, wholesale markets, retail stores, nurseries, etc. The cost of this trip should not exceed thirty dollars to each student. Each student will be required to hand in a detailed report covering the trip. The time for taking this trip will be arranged yearly with each class.

D. General Horticultural Courses

HORT. 41 s. *Horticultural Breeding Practices* (1)—One laboratory period. Senior year. Prerequisites, Genetics, Plant Phys. 101.

Practice in plant breeding, including pollination, hybridization, selection, note-taking and the general application of the theories of heredity and selection to practice are taken up in this course.

HORT. 42 y. *Horticultural Research and Thesis* (4-6).

Advanced students in any of the four divisions of horticulture may select some special problem for individual investigation. This may be either the summarizing of all the available knowledge on a particular problem or the investigation of some new problem. Where original investigation is carried on, students should in most cases start the work during the junior year. The results of the research work are to be presented in the form of a thesis and filed in the horticultural library.

HORT. 43 y. *Horticultural Seminar* (2).

In this course papers are read by members of the class upon subjects pertaining to their research or thesis work or upon special problems assigned them. Discussions of special topics are given from time to time by members of the departmental staff.

For Advanced Undergraduates and Graduates

HORT. 101 f. *Commercial Fruit Growing* (3)—Two lectures and one laboratory period. Prerequisite Hort. 1.

The proper management of commercial orchards in Maryland. Advanced work is taken up on the subject of orchard culture, orchard fertilization, picking, packing, marketing and storing of fruits, orchard by-products, orchard heating and orchard economics.

HORT. 102 s. *Economic Fruits of the World* (2)—Two lectures. Prerequisites Hort. 101 and Hort. 2.

A study is made of the botanical, ecological and physiological characteristics of all species of fruit-bearing plants of economic importance, such as the date, pineapple, fig, olive, banana, nut-bearing trees, citrus fruits, newly introduced fruits, and the like, with special reference to their cultural requirements in certain parts of the United States and the insular possessions. All fruits are discussed in this course which have not been discussed in a previous course.

HORT. 103 s. *Truck Crop Production* (3)—Two lectures and one laboratory period. Prerequisite Hort. 11.

A study of methods used in commercial vegetable production. Each individual crop is discussed in detail. Trips are made to large commercial gardens, various markets and other places of interest.

HORT. 104 f. *Systematic Olericulture* (3)—Two lectures and one laboratory period. Prerequisite Hort 12 and 103. Given in odd years only.

A study of the classification and nomenclature of vegetables. Description of varieties and adaptation of varieties to different environmental conditions.

HORT. 105 y. *Plant Materials* (4)—One lecture and one laboratory period. Given in even years only.

A field and laboratory study of trees, shrubs and vines used in ornamental planting.

For Graduates

HORT. 201 y. *Experimental Pomology* (6)—Three lectures.

A systematic study of the sources of knowledge and opinion as to practices in pomology; methods and difficulties in experimental work in pomology and results of experiments that have been or are being conducted in all experiment stations in this and other countries. A limited number of seniors will be allowed to take this course, with the approval of the head of the department.

HORT. 202 s. *Experimental Olericulture* (2)—Two lectures.

A systematic study of the sources of knowledge and opinion as to practices in vegetable growing; methods and difficulties in experimental work in vegetable production and results of experiments that have been, or are being conducted in all experiment stations in this and other countries. A limited number of seniors will be permitted to take this course, with the approval of the head of the department.

HORT. 203 s. *Experimental Floriculture* (2)—Two lectures.

A systematic study of the sources of knowledge and opinions as to practice in floriculture are discussed in this course. The results of all experimental work in floriculture which have been, or are being conducted, will be thoroughly discussed. A limited number of seniors will be permitted to take this course, with the approval of the head of the department.

HORT. 204 s. *Methods of Research* (2)—One lecture and one laboratory period.

For graduate students only. Special drill will be given in the making of briefs and outlines of research problems, in methods of procedure in conducting investigational work, and in the preparation of bulletins and reports. A study of the origin, development and growth of horticultural research is taken up. A study of the research problems being conducted by the Department of Horticulture will be made, and students will be required to take notes on some of the experimental work in the field and become familiar with the manner of filing and cataloging all experimental work.

HORT. 205 y. *Advanced Horticultural Research and Thesis* (4, 6 or 8).

Graduate students will be required to select problems for original research in either pomology, vegetable gardening, floriculture or landscape gardening. These problems will be continued until completed and final results are to be published in the form of a thesis.

HORT. 206 y. *Advanced Horticultural Seminar* (2).

This course will be required of all graduate students. Students will be required to give reports either on special topics assigned them, or on the progress of their work being done in courses. Members of the departmental staff will report special research work from time to time.

Requirements of Graduate Students in Horticulture

Pomology—Graduate students specializing in Pomology who are planning to take an advanced degree will be required to take or offer the equivalent of the following courses: Hort. 101, 102, 201, 204, 205 and 206; Bio-chemistry 101; Plant Bio-physics 202; Plant Physiology 201, and Organic Chemistry 110.

Olericulture—Graduate students specializing in vegetable gardening, who are planning to take an advanced degree, will be required either to take or offer the equivalent of the following courses: Hort. 103, 104, 202, 204, 205 and 206; Bio-chemistry 101; Plant Bio-physics 202; Plant Physiology 201, and Organic Chemistry 110.

Floriculture—Graduate students specializing in floriculture who are planning to take an advanced degree will be required either to take or offer the equivalent of the following courses: Hort. 22, 23, 24, 25, 26, 203, 204, 205 and 206; Bio-chemistry 101; Plant Bio-physics 202; Bio-chemistry 102; Botany 103, and Organic Chemistry 110.

Landscape Gardening—Graduate students specializing in landscape gardening, who are planning to take an advanced degree, will be required either to take or offer the equivalent of the following courses: Hort. 32, 33, 35, 105, 204, 205 and 206; Botany 103; Drafting 101 and 102, and Plane Surveying 101 and 102.

Additional Requirements—In addition to the above required courses, all graduate students in horticulture are advised to take physical and colloidal chemistry.

Unless graduate students in horticulture have had some course work in entomology, plant pathology and genetics, certain of these courses will be required.

E. Landscape Gardening

HORT. 31 s. *General Landscape Gardening* (2)—One lecture and one laboratory period.

The theory and general principles of landscape gardening and their application to private and public areas. Special consideration is given to the improvement and beautification of the home grounds, farmsteads and small suburban properties. Adapted to students not intending to specialize in landscape, but who wish some theoretical and practical knowledge of the subject. Given every odd year.

HORT. 32 f. *Elements of Landscape Design* (3)—One lecture and two laboratory periods. Prerequisite, Hort. 127.

A consideration of the principles of landscape design; surveys, mapping and field work.

HORT. 33 y. *Landscape Design* (6)—Three laboratory periods. Prerequisite, Hort. 129.

The design of private grounds, gardens and of architectural details used in landscape; planting plans; analytical study of plans of practicing landscape architects; field observation of landscape developments.

HORT. 34 s. *History of Landscape Gardening* (1)—One lecture or laboratory period. Prerequisite, Hort. 129.

Evolution and development of landscape gardening; the different styles and a particular consideration of Italian, English and American gardens. Given every odd year.

HORT. 35 s. *Landscape Construction and Maintenance* (1) — One credit. One lecture or laboratory period.

Methods of construction and planting; estimating; park and estate maintenance. Given every even year.

HORT. 36 f. *Civic Art* (2)—One lecture and one laboratory period. Prerequisite, Hort. 129.

Principles of city planning and their application to village and rural improvement, including problems in design of civic center, parks, school grounds and other public and semi-public areas. Given every odd year.

LATIN

LAT. 1 f. *Elementary Latin* (4)—Four lectures or recitations.

This course is offered to cover a substantial and accurate course in Grammar and Syntax, with translation of simple prose. It is substantially the equivalent of one entrance unit in Latin.

LAT. 2 s. *Translation and Prose Composition* (4)—Four lectures or recitations. Prerequisite, Lat. 1 or its equivalent. Substantially the equivalent of a second entrance unit in Latin.

Texts will be selected from the works of Caesar and Sallust.

LAT. 3 f. (4)—Four lectures or recitations. Prerequisite, Lat. 2, or two entrance units in Latin.

Texts will be selected from Virgil with drill on prosody.

LAT. 4 s. (4)—Four lectures or recitations. Prerequisite, Lat. 3 or three entrance units in Latin.

Selections from Cicero's orations, with parallel reading of the world's masterpieces of oratory.

LAT. 5 f. (3)—Three lectures or recitations. Prerequisites, Lat. 3 and 4.

Histories of Livy, with parallel reading of Napoleon's campaign in Italy.

LAT. 6 s. (3)—Three lectures or recitations. Prerequisites, Lat. 3 and 4.

Odes and Epodes of Horace, with appropriate study of prosody.

For Advanced Undergraduates and Graduates

LAT. 101 f. (3)—Three lectures or recitations. Prerequisites, Lat. 3 and 4.

The writings of Tacitus. Selected Plays of Terence and Plautus. (May be omitted 1926-1927.) (Spence.)

LAT. 102 f. (3)—Three lectures or recitations. Prerequisites, Lat. 3 and 4.

Satires of Juvenal and Horace. (May be omitted 1926-1927.) (Spence.)

LAT. 103 s. *Classical Literature* (3)—Three lectures or recitations. Knowledge of Greek or Latin desirable, but not essential.

Study and criticism of translations of the classics, biographies of classic authors. (Spence.)

LIBRARY SCIENCE

L.S. 1 f. *Library Methods* (1)—Freshman year. Required of all students registered in the College of Arts and Sciences. Elective for others.

This course is intended to help students use the library with greater facility. Instruction will be given by practical work with the various catalogs, indexes and reference books. This course considers the general classification of the library according to the Dewey system. Representative works of each division are studied in combination with the use of the library catalogue. Attention is given to periodical literature, particularly that indexed in the Reader's Guide and in other periodical indexes; and to various much-used reference books which the student will find helpful throughout his college course.

MATHEMATICS

MATH. 1 f. *Algebra* (3)—Three lectures or recitations. Alternative for students in the College of Arts and Sciences. Elective for other students. Prerequisite, Algebra and Quadratics.

This course includes the study of quadratics, simultaneous quadratic equations, graphs, progressions, elementary theory of equations, binomial theorem, permutations, combinations, etc.

MATH. 2 s. *Plane Trigonometry* (3)—Three lectures or recitations. Alternative for students in the College of Arts and Sciences. Elective for other students. Prerequisites, Math. 1 and Plane Geometry.

A study of the trigonometric functions and the deduction of formulas with their application to the solution of triangles and trigonometric equations.

MATH. 3 y. *Plane Trigonometry; Plane Analytic Geometry; Advanced Algebra* (10)—Five lectures or recitations. Required of Freshmen in the College of Engineering. Elective for other students. Prerequisites, Algebra and Plane Geometry completed.

Algebra and Plane Trigonometry are given during the first semester. Plane analytic geometry is studied during the second semester.

Advanced Algebra includes a review of algebra required for entrance, elementary theory of equations, binomial theorem, permutations, combinations and other selected topics.

Plane trigonometry includes trigonometric functions, the deduction of formulas and their application to the solution of triangles, trigonometric equations, etc.

Plane analytic geometry includes the curve and equation, the straight line, the conic sections, transcendental curve and empirical equations.

MATH. 4 f. *Plane Analytic Geometry* (3)—Three lectures or recitations. Required of students in chemistry. Elective for other students. Prerequisite, Math. 1 and 2.

Plane analytic geometry includes the study of the loci of equations in two variables, the straight line, conic sections and transcendental curves, and the development of empirical equations from graphs.

MATH. 5 s. *Calculus* (3)—Three lectures or recitations. Required of students in Chemistry. Elective for other students. Prerequisite, Math. 4.

Calculus includes the study of the methods of differentiation and integration and the application of these methods in determining maxima and minima and areas, lengths of curves, etc., in the plane.

MATH. 6 y. *Calculus; Mathematics of Space; Special Topics* (10)—Five lectures or recitations each semester. Required of Sophomores in the College of Engineering. Elective for other students. Prerequisites, Math. 3 and Solid Geometry.

Calculus is studied throughout the year. In the second semester two weeks are devoted to the study of the mathematics of space.

Calculus includes a discussion of the methods of differentiation and integration and the application of these methods in determining maxima and minima areas, length of curves, etc., in the plane.

Mathematics of Space includes the solution of spherical triangles; the discussion of surfaces, curves and equations in three variables, the straight line, the plane and quadric surfaces, and the determination of areas, volume, etc., by the methods of the calculus.

For Advanced Undergraduates and Graduates

MATH. 101 f. *The Mathematical Theory of Investment* (3)—Three lectures or recitations. To be followed by Math. 102 s. Open to Juniors and Seniors.

The application of mathematics to financial transactions; compound interest and discount, construction and use of interest tables, sinking funds, annuities, depreciation, valuation and amortization of securities, building and loan associations, life insurance, etc. (Schad.)

MATH. 102 s. *Elements of Statistics* (3)—Three lectures or recitations. A continuation of Math. 101. Prerequisite, Math. 101. Open to Juniors or Seniors.

A study of the fundamental principles used in statistical investigation. (Schad.)

MATH. 103 f. *Differential Equations* (2)—Two lectures. Elective. Prerequisites, Math. 5 or Math. 6.

The solution of the simpler differential equations is discussed.

MATH. 104 s. *Least Squares* (2)—Two lectures. Elective. Prerequisite, Math. 5 or Math. 6.

A short course in which stress is laid on the application to engineering chemistry, etc.

MATH. 105 f or s. *Theory of Equations* (3)—Elective.

MATH. 106 f or s. *Elementary Theory of Functions of a Complex Variable* (3)—Elective.

MATH. 107 f or s. *Elements of Theory of Algebraic Numbers* (3)—Elective.

MILITARY SCIENCE AND TACTICS

M. I. 101 y. *Basic R. O. T. C.* (2)—Freshman year.

The following subjects are covered:

First Semester:

Military Courtesy, Command and Leadership, Marksmanship, Physical Drill.

Second Semester:

Physical Drill, Military Hygiene and First Aid, Command and Leadership, Marksmanship.

M. I. 102 y. *Basic R. O. T. C.* (4)—Sophomore year.

The following subjects are covered:

First Semester:

Automatic Rifle, Musketry, Interior Guard Duty, Command and Leadership.

Second Semester:

Musketry, Scouting and Patrolling, Command and Leadership.

M. I. 103 y. *Advanced R. O. T. C.* (6)—Junior year.

The following subjects are covered:

First Semester:

Infantry Weapons (Machine Guns), Military Law, Rules of Land Warfare, Command and Leadership.

Second Semester:

Infantry Weapons (Machine Guns), Military Sketching, Military Field Engineering, Command and Leadership.

M. I. 104 y. *Advanced R. O. T. C.* (6)—Senior year.

The following subjects are covered:

First Semester:

Combat Principles, Military History and National Defense Act, Command and Leadership.

Second Semester:

Combat Principles, Infantry Weapons (37 MM. Gun and 3-inch Trench Mortar), Administration, Command and Leadership.

MUSIC

MUSIC 1 y. *Music Appreciation* (2).

A study of all types of classical music with a view to developing the ability to listen and enjoy. Lecture recitals will be presented with the aid of performers and records. A study of the orchestra, the instruments that it employs. The development of the symphony and orchestra instruments for solo performance. The development of the opera and oratorio. Great singers of the past and present.

MUSIC 2 y. *University Chorus* (2).

Study of part-songs, cantatas, and oratorios. Credit is awarded for regular attendance at weekly rehearsals, and participation in public performances of the chorus.

Students admitted who have ability to read and sing music of the grade of easy church hymns. No student may receive more than four credits for work in University Chorus.

(For courses in Voice and Piano, see under College of Arts and Sciences.)

PHILOSOPHY

For Advanced Undergraduates and Graduates

PHIL. 101 f. *Introduction to Philosophy* (3)—Lectures and assignments.

A study of the meaning and scope of philosophy: its relations to the arts, sciences and religion. To be followed by Phil. 102.

PHIL. 102 s. *Problems and Systems of Philosophy* (3)—Three lectures and reports on the reading of representative works. Prerequisite, Phil. 101.

Study of the problems and systems of philosophy, together with tendencies of present-day thought.

PHIL. 104 y. *History of Philosophy* (6)—Three lectures each semester. Senior standing required.

A study of the development of philosophy from prehistoric times, through Greek philosophy, early Christian philosophy, medieval philosophy to modern philosophical thought. (May be omitted 1926-1927.)

MYTH. 101 s. *Mythology* (1)—One lecture a week.

Origin and reason of folklore and myth. Comparison of myths, mythology, and modern thought.

PHYSICAL EDUCATION FOR WOMEN

PHYS. ED. 1 y. *Physical Education and Personal Hygiene* (2)—Freshman course required of all women.

This course consists of instruction in hygiene, one period a week, and physical training activities, two periods a week throughout the year.

A. *Personal Hygiene*. The health ideal and its attainment; care of the body relative to diet, exercise, sleep, bathing, etc.; agents that injure health.

B. *Physical Activities*. The aim is to adapt the physical activities to the needs of groups and individuals. Gymnastic practice, indoor and outdoor games, sports and athletics are provided. The repertory of games and sports is as follows: basketball, hiking, rifle shooting, swimming, tennis and track and field events.

PHYS. ED. 2 y. *Physical Education and General Hygiene* (4)—Sophomore course required of all women.

This course is a continuation of the freshman course. The work in hygiene includes the elements of physiology and the elements of home, school and community hygiene. The program of physical activities is essentially the same as in the first year.

PHYSICS

PHYS. 1 y. *Arts Physics* (8)—Three lectures (or recitations) and one laboratory period each semester. Prerequisite, Math. 1 f and 2 s.

A study of the physical phenomena in Mechanics, Heat, Sound, Magnetism, Electricity and Light. Required of students in the Pre-Medical curriculum. Elective for other students.

PHYS. 2 y. *Engineering Physics* (10)—Four lectures (or recitations) and one laboratory period each semester. Prerequisite, Math. 3 y.

A study of Mechanics, Heat, Sound, Magnetism, Electricity and Light. Required of all students in engineering and chemistry. Elective for other students.

PHYS. 3 s. *Special Applications of Physics* (4)—Three lectures (or recitations) and one laboratory period.

This course consists of a discussion of the laws and theories of physics from the viewpoint of their practical applications. Especially for students in agriculture and home economics.

For Advanced Undergraduates and Graduates

PHYS. 101 f. *Physical Measurements* (3)—Two lectures (or recitations) and one laboratory period. Prerequisite, Phys. 1 or 2.

This course is designed for the study of the theory of physical measurements and for familiarizing the student with the manipulation of the types of apparatus used in experimentation in physical problems (Eichlin.)

PHYS. 102 y. *Graphic Physics* (2)—One laboratory period each semester. Prerequisite, Phys. 2.

A study of physical laws and formulae by means of scales, charts and graphs.

PHYS. 103 f. *Advanced Physics* (3 or 4)—Three lectures (or recitations) and one laboratory period. Prerequisite Phys. 1 or 2.

An advanced study of Mechanics and Molecular Physics. (Eichlin.)

PHYS. 104 s. *Advanced Physics* (3 or 4)—Three lectures (or recitations) and one laboratory period. Prerequisite Phys. 1 or 2.

An advanced study of Wave Motion, Sound and Heat.

PHYS. 105 f. *Advanced Physics* (3 or 4)—Three lectures (or recitations) and one laboratory period. Prerequisite Phys. 1 or 2.

An advanced study of Electricity and Magnetism. (Not given in 1926-1927.)

PHYS. 106 s. *Advanced Physics* (3 or 4)—Three lectures (or recitations) and one laboratory period. Prerequisite Phys. 1 or 2.

An advanced study of Optics. (Not given in 1926-1927.)

PHYS. 107 y. *Specialized Physics* (6)—Three lectures (or recitations) each semester. Prerequisite Phys. 1 or 2.

A study of Physical phenomena in Optics, Spectroscopy, Conduction of Electricity through Gases, etc. (Eichlin.)

For Graduates

PHYS. 201 y. *Modern Physics* (6)—Three lectures (or recitations) each semester. A study of some of the problems encountered in Modern Physics. (Eichlin.)

PLANT PATHOLOGY

(For other Botanical Courses see Botany and Plant Physiology)

PLT. PATH. 1 f. *Diseases of Plants* (3)—Two lectures and one laboratory period. Prerequisite, Gen. Bot. 101.

An introductory study in the field, in the laboratory and in the literature, of symptoms, casual organisms and control measures of the diseases of economic crops.

PLT. PATH. 2 s. *Forest Pathology* (1)—One lecture and an occasional field trip or laboratory period.

The diseases of forest trees of economic importance. Intended especially for students in forestry.

For Advanced Undergraduates and Graduates

PLT. PATH. 101 f. *Diseases of Fruits* (2-4)—Two lectures; laboratory according to credit desired. Prerequisite, Plt. Path. 1.

An intensive study intended to give a rather thorough knowledge of the subject matter, such as is needed by those who expect to become advisers in fruit production, as well as those who expect to become specialists in plant pathology.

PLT. PATH. 102 s. *Diseases of Garden and Field Crops* (2-4)—Two lectures; laboratory according to credit desired. Prerequisite, Plt. Path. 1.

The diseases of garden crops, truck crops, cereal and forage crops. Intended for students of vegetable culture, agronomy and plant pathology, and for those preparing for county agent work.

PLT. PATH. 103 f. *Research Methods* (2)—One conference and five hours of laboratory and library work. Prerequisite Plt. Path. 1 or equivalent.

Technique of plant disease investigations: sterilization, culture media, isolation of pathogens, inoculation methods, single-spore methods, disinfectants, fungicides, photography, preparation of manuscripts, and the literature in the scientific journals and bulletins on these subjects. (Temple.)

PLT. PATH. 104 f and s. *Minor Investigations*—Credit according to work done. A laboratory course with an occasional conference. Prerequisite Plt. Path. 101 or a course in bacteriology.

In this course the student may enter or withdraw at any time, including the summer months, and receive credit for the work accomplished. The course is intended primarily to give practice in technique so that the student may acquire sufficient skill to undertake fundamental research. Only minor problems or special phases of major problems may be undertaken. Their solution may include a survey of the literature on the problem under investigation and both laboratory and field work. (Temple and Norton.)

PLT. PATH. 105 s. *Diseases of Ornamentals* (2)—One lecture and one laboratory period. Offered in 1925-26 and in alternate years.

The most important diseases of plants growing in greenhouse, flower garden and landscape, including shrubs and shade trees. (Temple.)

PLT. PATH. 106 y. *Seminar* (1).

Conferences and reports on plant pathological literature and on recent investigations. (Temple.)

For Graduates

PLT. PATH. 201 f. *Virus Diseases*—Two credits. Two lectures.

An advanced course dealing with the mosaic and similar or related diseases of plants, including a study of the current literature on the subject.

PLT. PATH. 202 s. *Physiology of Parasitism* (2)—One lecture and one laboratory period. Prerequisite, Plt. Path. 103 or equivalent.

A study of the physiological inter-relations of plant pathogens and their hosts.

PLT. PATH. 203 f. *Non-Parasitic Diseases* (2)—Two lectures.

Effects of maladjustment of plants to their environment; injuries due to climate, soil, gases, dusts and sprays, fertilizers; improper treatment and other detrimental conditions. (Norton.)

PLT. PATH. 204 s. *Literature of Plant Pathology* (2)—One conference and five hours of library work.

History and development of the science; scope and importance of the more outstanding botanical and plant pathological publications, including journals, bulletins, etc.; card catalogue of the workers, past and present day, and of their contributions; laboratories for research and for instruction. (Temple.)

PLT. PATH. 205 y. *Research*—Credits according to work done. (Norton-Temple).

PLANT PHYSIOLOGY AND BIOCHEMISTRY

(For other Botanical courses see Botany and Plant Pathology)

PLT. PHY. 1 f. *Plant Physiology* (4)—Two lectures and two laboratory periods. Prerequisite, Gen. Bot. 1.

Water requirements, principles of absorption, mineral nutrients, transpiration, synthesis of food, metabolism, growth and movements.

PLT. PHY. 2 s. *Plant Ecology* (3)—One lecture and two laboratory periods. Prerequisite, Bot. 1.

The study of plants in relation to their environments. Plant formations and successions in various parts of the country are briefly treated. Much of the work, especially the practical, must be carried on in the field and for this purpose type regions adjacent to the University are selected.

For Advanced Undergraduates and Graduates

PLT. PHY. 101 y. *Advanced Plant Physiology* (4)—Two lectures and two laboratory periods. Prerequisite, Plt. Phy. 1.

A study of the physiology of growth. The course deals with special groups of factors which have to do with temporary responses and long period responses effecting complete development, movements and reproduction. (Zimmerman.)

BIOCHEM. 102 f. *General Biochemistry* (4)—Two lectures and two laboratory periods. Prerequisites, Gen'l. Chem. 1, Analyt. Chem. 3 or their equivalents; also an elementary knowledge of organic chemistry.

A general course in chemical biology treated from the point of view of both animals and plants. The first half of the course is devoted to the chemistry of protoplasm and its products. The second half of the course deals with cell metabolism and embraces processes and problems of fundamental importance in both animal and plant life. (Appleman, Conrad.)

For Graduates

PLT. PHYS. 201 s. *Plant Biochemistry* (3)—Two lectures and one laboratory period. Prerequisites, Biochem. 102 and an elementary knowledge of plant physiology.

An advanced course on the chemistry of plant life. It follows Biochem. 102 and deals with materials and processes characteristic of plant life. The relation of primary syntheses and transformations of materials in plants and plant organs to animal food is especially emphasized. (Appleman, Conrad.)

PLT. PHYS. 202 s. *Plant Biophysics* (3)—Two lectures and one laboratory period. Prerequisites, one year's work in physics and an elementary knowledge of physical chemistry and plant physiology.

An advanced study of the operation of physical forces in plant physiological processes. The relation of climatic conditions to plant growth and practice in recording meteorological data constitute a part of the course. (Johnston.)

PLT. PHYS. 203 s. *Problems of Plant Development* (2)—Not given every year. (Appleman, Zimmerman, Johnston.)

PLT. PHYS. 204 y. *Seminar* (2).

The students are required to prepare reports of papers in the current literature. These are discussed in connection with the recent advances in the subject.

PLT. PHYS. 205 y. *Research*—Credit hours according to work done.

Students must be specially qualified by previous work to pursue with profit the research to be undertaken. (Appleman, Zimmerman, Johnston.)

POLITICAL SCIENCE

SOC. SCI. 1 y. *Elements of Social Science* (6). (For description of course, see Economics, page 163.)

POL. SCI. 2 f. *Government of the United States* (3)—Three lectures and recitations. Prerequisite, Soc. Sci. 1.

A study of the Government of the United States. Evolution of the Federal Constitution; function of the Federal Government.

POL. SCI. 3 s. *Governments of Europe* (3)—Three lectures and recitations. Prerequisites, Soc. Sci. 1; Pol. Sci. 2.

A rapid survey and comparative study of the political organization of the principal states of Europe. Classification of forms, separation of powers.

For Advanced Undergraduates and Graduates

POL. SCI. 105 s. *American Municipal Government* (2)—Two lectures and recitations. Prerequisites, Soc. Sci. 1; Pol. Sci. 2. (Omitted 1926-1927.)

A study of American City Government; organization and administration; city manager and commission plans; initiative, referendum and recall.

POL. SCI. 110 y. *Constitutional Law and History of the United States* (4)—Two lectures and cases each semester. Prerequisites, Soc. Sci. 1; Pol. Sci. 2. Alternates with Pol. Sci. 111. Seniors and graduate students. (Omitted 1926-1927.)

A study of the historical background of the Constitution and its interpretation. (Schulz.)

POL. SCI. 111 y. *International Law* (4)—Two lectures, assigned reading and cases each semester. Prerequisites, Soc. Sci. 1; Pol. Sci. 2. Alternates with Pol. Sci. 110. Seniors and graduate students. (May be omitted 1926-1927.)

A study of the sources, nature and sanction of international law, peace, war and neutrality. (Schulz.)

POL. SCI. 112 f. *American Diplomacy* (3)—Three lectures and cases. Prerequisites as for Pol. Sci. 111. (May be omitted 1926-1927.)

A study of American foreign policy. (Schulz.)

POL. SCI. 116 f. *Political Parties in the United States* (3)—Two lectures and assigned readings. Prerequisites, Soc. Sci. 1; Pol. Sci. 2. (May be omitted 1926-1927.)

The development and growth of American political parties. Party organization and machinery. (Schulz.)

POL. SCI. 120 f. *Far Eastern History, Politics and Finance* (3)—Three lectures and assignments.

A study of the social and economic history of the principal countries of the Far East, with special emphasis upon political and economic movements in China and Siberia, and the relations of the countries of the Far East with the United States. (Lee.)

POULTRY HUSBANDRY

POULTRY 1 s and 101 s. *Farm Poultry* (3)—Two lectures and one laboratory period.

A general course in poultry raising, including housing, feeding, incubation, brooding, breeds, breeding, selection of stock, culling, general management and marketing.

POULTRY 102 f. *Poultry Keeping* (4)—Two lectures and two laboratory periods. Prerequisite, Poultry 101.

A study of housing and yarding, practice in making poultry house plans, feeding, killing and dressing.

POULTRY 103 s. *Poultry Production* (4)—Two lectures and two laboratory periods. Prerequisite, Poultry 101 and 102.

The theory and practice of incubation and brooding, both natural and artificial. Study of incubators and brooders, assembling, etc. Considerable stress will be placed on the proper growing of chicks into good laying pullets. General consideration of poultry disease. Caponizing.

POULTRY 104 f. *Poultry Breeds* (4)—Two lectures and two laboratory periods. Prerequisite, Poultry 101, 102 and 103.

A study of the breeds of poultry, the judging of poultry, fitting for exhibition and the methods of improvement by breeding.

POULTRY 105 s. *Poultry Management* (4)—Two lectures and two laboratory periods. Prerequisites, Poultry 101, 102, 103 and 104.

A general fitting together and assembling of knowledge gained in the previous courses. Culling, marketing, including both selling of poultry products and the buying of supplies, keeping poultry accounts, a study of poultry profits, how to start.

POULTRY 106 s. *Poultry Products* (1)—One lecture.

A lecture course dealing with grading, marketing, and preparation of products, economics of production, and other subjects that are of especial interest to the consumer.

PSYCHOLOGY

PSYCH. 1 s. *Elements of Psychology* (3)—Three lectures and recitations. Seniors in this course receive but two credits.

The facts and uniformities of mind; types of behavior, conscious experience, sensation and image, perception, attention, memory, emotion, action and thoughts. Experimental methods and their results are illustrated in lectures.

For Advanced Undergraduates and Graduates

PSYCH. 101 f. *Introduction to Social Psychology* (3)—Prerequisite, Psych. 1 s or Educ. 101.

The social aspects of the individual; personality as determined by social influences. Social behavior as response to social stimulation; social attitudes and adjustments of individuals, classes, races, and nationalities. Social organization and control: fashion, fad, craze, convention, custom, rumor, and public opinion; institutions: family, church, school, government. Social behavior in the economic sphere, credit, panics, industrial conflict, etc. The psychology of leadership and social progress. (Brown- ing.)

ED. 101 f. *Educational Psychology* (3).

(See Education.)

ED. 106 s. *Advanced Educational Psychology* (3).

(See Education.)

ED. 107 f. *Educational Measurements* (3).

(See Education.)

ED. 108 s. *Mental Hygiene* (3).

(See Education.)

PUBLIC SPEAKING

P. S. 1 y. *Reading and Speaking* (2)—One lecture or recitation.

The principles and technique of oral expression; enunciation, emphasis, inflection, force, gesture and general delivery of short speeches. Impromptu speaking. Theory and practice of parliamentary procedure.

P. S. 2 f. *Advanced Public Speaking* (2)—Two lectures or recitations.

Advanced work on basis of P. S. 1, with special applications and adaptations. At each session of the class a special setting is given for the speeches—civil, social and political organizations, etc., and organizations in the field of the prospective vocation of the different students. When a student has finished this course he will have prepared and delivered one or more speeches which would be suitable and appropriate before any and all bodies that he would probably have occasion to address in after-life.

P. S. 3 y. *Oral Technical English* (2)—One lecture or recitation.
The preparation and delivery of speeches, reports, etc., on both technical and general subjects. Argumentation. This course is especially adapted to the needs of engineering students and is co-ordinated with the seminars of the College of Engineering.

P. S. 4 y. *Advanced Oral Technical English* (4)—Two lectures or recitations.

This course is a continuation with advanced work of P. S. 3 y. Much attention is given to Parliamentary Procedure. Some of the class programs are prepared by the students and carried out under student supervision. For junior engineering students only.

P. S. 5 y. *Advanced Oral Technical English* (2)—One lecture or recitation.

Advanced work on the basis of P. S. 4 y. Work not confined to class room. Students are encouraged to deliver addresses before different bodies in the University and elsewhere. For senior engineering students only.

P. S. 6 y. *Oratory* (2)—One lecture or recitation. Prerequisite, P. S. 1.

The rhetoric of oral discourse. The speech for the occasion. Study of masterpieces of oratory. Practice in the writing and delivery of orations.

P. S. 7 f. *Extempore Speaking* (1)—One lecture or recitation.

Much emphasis on the selection and organization of material. Class exercises in speaking extemporaneously on assigned and selected subjects. Newspaper and magazine reading essential.

P. S. 8 s. *Extempore Speaking* (1)—One lecture or recitation.

Continuation of P. S. 115.

P. S. 9 f. *Debate* (2)—Two lectures or recitations.

A study of the principles of argumentation. A study of masterpieces in argumentative oratory. Class work in debating. It is advised that those who aspire to intercollegiate debating should take this course.

P. S. 10 s. *Argumentation* (2)—Two lectures or recitations.

Theory and practice of argumentation and debate. Similar to course 118. This course is offered for the benefit of those who may find it impracticable to take this work in the second semester.

P. S. 11 f. *Oral Reading* (2)—Two lectures or recitations.

A study of the technique of vocal expression. The oral interpretation of literature. The practical training of students in the art of reading.

P. S. 12 s. *Oral Reading* (2)—Two lectures or recitations.

Continuation of P. S. 11.

SOCIOLOGY

Soc. Sci. 1 y. *Elements of Social Science* (6).
(For description of course see *Economics*, Page 163.)

For Advanced Undergraduates and Graduates

Soc. 102 f. *Anthropology* (3)—Three lectures and assignments. Prerequisite, Soc. Sci. 1.

A study of the physical and cultural evolution of man; the races of man, language, primitive warfare and economic activities; prehistoric archeology; the beginnings of society. (Murdock.)

Soc. 103 s. *Ethnology* (3)—Three lectures and assignments. Prerequisites, Soc. Sci. 1. Should be preceded by Soc. 102.

A comparative study of the culture, customs and social institutions of savage, barbarous and civilized tribes and nations; population movements and racial distribution. (Murdock.)

Soc. 104 f. *General Sociology* (3)—Three lectures and assignments. Prerequisite, Soc. Sci. 1. Should be preceded by Soc. 102.

A study of the fundamental principles of the science of society; development of early industrial, religious, family and regulative institutions. (Lee, Murdock.)

Soc. 106 f. *American Population* (3)—Three lectures and assignments. Prerequisites, Soc. Sci. 1 and Soc. 104.

Growth and composition of American population; problems of race adjustment; the Negro; the Indian; the Immigrant; the Oriental. (Murdock.)

Soc. 108 s. *Social Adaptation* (3)—Three lectures and assignments. Prerequisites, Soc. Sci. 1 and Soc. 104.

A study of methods, both utopian and practical, for bringing about adjustments in society; utopias; communistic societies; socialism; philanthropy; social legislation; social insurance; eugenics; applied science. (Murdock.)

Soc. 110 s. *Methods in Applied Sociology* (3)—Lectures and assignments. Prerequisites, Soc. Sci. 1, and a substantial number of advanced courses in Social Science. (May be omitted in 1926-1927.)

The application of the principles of the science of society in social service. Social surveys in theory and practice. Public policy as respects the dependent and delinquent. (Lee.)

For Graduates

Soc. 201 s. *Sociological Systems* (2).

A comparative survey of the most important sociological literature. (Lee.)

Soc. 202 f. *Marriage and the Family* (3)—Three lectures and a substantial amount of outside reading. Open to graduates and to selected Seniors who have had a substantial number of advanced courses in Social Science.

An ethnological study of the institutions of marriage and the family; their primitive beginnings and their evolution into modern forms. (Murdock.)

Soc. 204 s. *Development of Primitive Religion* (3)—Three lectures and a substantial amount of outside reading. Open to graduates and to selected Seniors who have had a substantial number of advanced courses in Social Science.

An ethnological study of primitive religion; primitive mental reactions; animistic conceptions; development of religious ideas, the cult and the priesthood. (Murdock.)

Soc. 210 s. *Sociological Seminar* (2)—Open to graduate students and Seniors with a major in Social Science.

Trends in Sociological Writing. Reviews of current social science works. Survey of sociological investigations under way. (Department.)

AG. ED. 203 s. *Rural Community Surveys* (3-5).

(See *Agricultural Education and Rural Life*.)

SOILS

SOILS 1 s. *Principles of Soil Management* (3)—Two lectures, one quiz and one laboratory period. Prerequisite, Geol. 101.

A study of the physical, chemical and biological principles underlying the formation and management of soils. The relation of mechanical composition, classification, moisture, temperature, air, organic matter and tillage are considered. The use and value of commercial plant nutrients, green and stable manure and of lime are discussed.

SOILS 2 f. *Fertilizers and Manures* (3)—Two lectures and one laboratory period. Prerequisite, Soils 101.

This course includes a study of the nature, properties and use of fertilizers; the source and composition of fertilizer materials and the principles underlying the mixing of commercial plant-food. A study is made of the production, value and uses of animal and vegetable manures. The practical work includes special studies of the effect of fertilizers and manures on the crop-producing power of the various soil types.

SOILS 3 s. *Soil Fertility* (3)—Two lectures and one laboratory period. Prerequisites, Soils 101 and 102.

A study of the soil fertility systems of the United States, with special emphasis on the inter-relation of total to available plant food, the balance of nutrients in the soil with reference to various cropping systems and the economic and national aspect of permanent soil improvement. The practical work includes a resume of the important fertility studies and laboratory and greenhouse practice in soil improvement.

SOILS 5 f. *Soil Surveying and Classification* (3)—One lecture and two laboratory periods. Prerequisite, Soils 101.

A study of the principal soil regions, series and types of the United States, and especially of the soils of Maryland, as to formation, composition and value agriculturally. The practical work includes a field survey, identification of soil types and map-making.

SOILS 7 s. *Soil Micro-Biology* (3)—Two lectures and one laboratory period. Prerequisite, Bact. 101.

A study of the micro-organisms of the soil in relation to fertility. It includes the study of the bacteria of the soil concerned in the decomposition of organic matter, nitrogen fixation, nitrification, sulphofication and such injurious organisms as fungi, algae and protozoa.

SOILS 8 y. *Thesis* (4-8).

Some special problem is assigned to each student, who is expected to embody the results of the investigation in a thesis.

For Advanced Undergraduates and Graduate Students

SOILS 101 y. *Soil Technology* (6)—One lecture and two laboratory periods. Prerequisites, Geology 101 and Soils 101; Chemistry 101.

The technique of the field, laboratory and greenhouse manipulation as applied to the study of soil problems. (McCall.)

SOILS 102 s. *Methods of Soil Investigation* (2).

The course includes a critical study of the methods used by experiment stations in soil investigational work. (McCall.)

SOILS 103 y. *Seminar* (2).

The seminar periods are devoted largely to the discussion of the current bulletins and scientific papers on soil topics. (Staff.)

For Graduate Students

SOILS 201 y. *Special Problems and Research* (10-20).

Original investigation of problems in soils and fertilizers. (McCall.)

SPANISH

SPANISH 1 y. *Elementary Spanish* (8)—Four recitations. No credit given unless both semesters are completed. Students who offer two units in Spanish for entrance, but whose preparation is not adequate for second-year Spanish may receive half credit for this course.

Elements of Spanish grammar; reading of easy prose; oral practice.

SPANISH 2 y. *Second-Year Spanish* (6)—Three recitations. Prerequisite, Spanish 101 or equivalent.

Reading of narrative works and plays; grammar review; oral and written practice.

SPANISH 11 y. *Advanced Spanish* (6)—Three recitations. Prerequisite, Spanish 2 or equivalent.

First Semester—Readings in Spanish literature since 1898. Second Semester—Readings from classical drama. Reading, lectures and discussions.

SPANISH 12 y. *Readings in the Spanish Novel* (6)—Three recitations. Prerequisite, Spanish 2 or equivalent.

First Semester—Readings in Spanish novel of 19th and 20th centuries. Second Semester—Don Quixote. Lectures on related subjects in Spanish literature.

VETERINARY MEDICINE AND ANATOMY

V. M. 101 s. *Comparative Anatomy and Physiology* (3)—Three lectures. Junior year.

Structure of the animal body; abnormal as contrasted with normal. The inter-relationship between the various organs and parts as to structure and function. (Reed.)

V. M. 102 y. *Animal Hygiene* (3)—Three lectures or demonstrations. Senior year.

Care and management of domestic animals, with special reference to maintenance of health and resistance to disease. Prevention and early recognition of disease; general hygiene; sanitation; first aid. (Reed.)

ZOOLOGY AND AQUICULTURE

ZOOL. 1 f or s. *General Zoology* (4)—Two lectures and two laboratory periods.

This course is cultural and practical in its aims. It deals with the basic principles of animal development, morphology, relationships and activities which are valuable for a proper appreciation of the biological and the social sciences.

ZOOL. 2 f. *General Zoology for Pre-Medical Students* (4)—Two lectures and two laboratory periods.

ZOOL. 3 s. *General Zoology for Pre-Medical Students* (4)—Two lectures and two laboratory periods. Prerequisite, Zool. 1 or Zool. 2.

ZOOL. 4 s. *Economic Zoology* (1)—One lecture. Prerequisite, one course in Zoology or Botany 1.

The content of this course will center around the problems of preservation, conservation and development of the aquatic life of Maryland, including the blue crab and oyster. The lectures will be supplemented by assigned readings and reports.

ZOOL. 5 f. *The Invertebrates* (3)—One lecture and two laboratory periods. Prerequisite, Zool. 1.

This course consists in a study of the morphology and relationships of the principal invertebrate phyla.

ZOOL. 6 s. *Field Zoology* (3)—One lecture and two laboratory periods.

This course consists in collecting and studying both land and aquatic forms of nearby woods, fields and streams, with special emphasis placed upon insects and certain vertebrates, their breeding habits, environment and economic importance.

ZOOL. 8 f or s. *Comparative Vertebrate Morphology* (4)—Two lectures and two laboratory periods. Prerequisite, Zool. 1, or Zool. 6. Required of pre-medical students.

ZOOL. 12 s. *Normal Animal Histology* (3)—One lecture and two laboratory periods. Prerequisite, Zool. 101.

Instruction in the simplest processes of technique will accompany the study of prepared material.

ZOOL. 16 f or s. *Advanced Comparative Vertebrate Morphology* (2)—Schedule to be arranged. Prerequisite, Zool. 8 or its equivalent.

This is a continuation of Zool. 8, but will consist of laboratory work only.

For Advanced Undergraduates and Graduates

ZOOL. 101 s. *Embryology* (4)—Two lectures and two laboratory periods. Prerequisites, two semesters of biology, one of which should be Zool. 1 or 2. Required of three-year pre-medical students.

This course covers the development of the chick to the end of the fourth day. (Pierson, Anderson.)

ZOOL. 102 f or s. *Mammalian Anatomy* (1-3)—One to three laboratory periods. Prerequisite, one year of Zoology. A thorough study of the gross anatomy of the cat or other mammal.

ZOOL. 105 y. *Aquiculture* (2)—Lectures and laboratory to be arranged. Prerequisites, Zool. 1 and Bot. 1.

Plankton studies and the determination of other aquatic life of nearby streams and ponds. Morphology and ecology of representative commercial and game fishes in Maryland, the Chesapeake blue crab and the oyster. (Truitt.)

ZOOL. 110 f. *Organic Evolution* (2)—Two lectures. Prerequisites, two semesters of biological science, one of which must be either Zool. 1 or Zool. 6.

The object of this course is to present the biological data on which the theories of evolution rest. The lectures will be supplemented by discussion, reports and collateral reading. (Pierson.)

ZOOL. 115 y. *Vertebrate Zoology*—Credit hours and schedule to be arranged to suit the individual members of the class.

Each student may choose, within certain limits, a problem in Taxonomy, Morphology or Embryology. (Pierson.)

ZOOL. 140. *Marine Zoology*. Credit to be arranged. (Mr. Truitt.)

This work is given at the Chesapeake Laboratory, which is conducted co-operatively by the Maryland Conservation Department and the Department of Zoology and Aquiculture, on Solomons Island, where the research is directed primarily toward those problems concerned with commercial forms, especially the blue crab and the oyster. The work starts during the third week of June and continues until mid-September, thus affording ample time to investigate complete cycles in life histories, ecological relationships and plankton contents. Course limited to few students whose selection will be made from records and recommendations submitted with applications, which should be filed on or before June 1st.

Laboratory facilities, boats of various types fully equipped (pumps, nets, dredges and other apparatus) and shallow water collecting devices are available for the work without extra cost to the student.

For Graduates

ZOOL. 200 y. *Zoology Problems.* (Pierson, Truitt.)

SECTION IV

DEGREES, HONORS, STUDENT REGISTER

DEGREES CONFERRED 1925

HONORARY DEGREES

SWEPSON EARLE, Doctor of Letters
REID HUNT, Doctor of Science

HONORARY CERTIFICATE OF MERIT

NELSON FOOKS

THE GRADUATE SCHOOL

Doctor of Philosophy

CARL MARCUS CONRAD

B.S. Kansas State Agricultural College, 1921
M.S. University of Maryland, 1923

Dissertation:

"A Biochemical and Physiological Study of the Pectic Material in Some Fruits and Vegetables."

WILLIAM DUKE KIMBROUGH

B.S. Alabama Polytechnic Institute, 1920
M.S. University of Maryland, 1924

Dissertation:

"A Study of Respiration in Potatoes with Special Reference to Storage and Transportation."

Ho LIU

B.S. Iowa State College, 1922
M.S. Iowa State College, 1923

Dissertation:

"The Effect of Fertilizers on the Chemical Composition and Physical Properties of Tobacco."

ALBERT LEE SCHRADER

B.S. University of Wisconsin, 1920
M.S. University of Wisconsin, 1921

Dissertation:

"A Study of the Concord Grape Vine in Relation to Pruning and Fruiting."

ARTHUR MATTHIAS SMITH
B.S. Pennsylvania State College,
1916
M.S. University of Maryland, 1921

Dissertation:
"A Study of the Factors Influencing
the Efficiency of Different Forms
of Nitrogen as Related to Soil
Type and Cropping System in the
Atlantic Coastal Plain Region."

Master of Arts

ESTON EVERETT ERICSON
MARGARET MARIE PREINKERT

ROBERT MALCOLM WATKINS
CLARIBEL PRATT WELSH

Master of Science

ROBERT CARLTON BURDETTE
ALBERT E. HITCHCOCK
MARTIN LEATHERMAN
MALCOLM BARTLER MELROY
JOHN WESLEY MUMFORD

NORRIS NEWMAN NICHOLS
OTTO PHILIP HENRY REINMUTH
HAROLD ALBERT REMSBERG
FRANCIS CURIE SKILLING
WINIFRED REBECCA WEIMER

COLLEGE OF AGRICULTURE

Bachelor of Science

WILTON AMBLER ANDERSON
JOHN HARMAN BAKER
FRANK WASHBURN BANFIELD
J. FRANK BARTON
HAROLD M. BONNETT
GEORGE E. BOUIS
WALTER DAVIS BROMLEY
HORACE DILWORTH BUCKMAN
FRED LOGAN BULL
FRANCIS POWELL CLUFF
WALKER MYRICK DAWSON
HOWARD ABRAM ENGLAND
*LUIS FELIPE GANOZA
PAUL BEATTY HARLAN
GEORGE REGINALD HEINE
MICHAEL HEVESSY
CHARLES WILLIAM HOHMAN
ARTHUR HOUSTON HOLLAND

JOHN FRANCIS HOUGH
LEONARD BRIDWELL LINCOLN
VICTOR S. MYERS
KNUTE WILLIAM NIELSON
WILLIAM ALVIN PARLETTE
WILBUR PEARCE
M. MYRON PRICE, JR.
FLOYD VIVIAN RITTER
CHARLES SHOEMAKER
ARTHUR ROSS SLEASMAN
EDWARD JAMES SMITH
EDWARD A. STANLEY
LEANDER S. STUART
RICHARD LAYTON SUMMERILL
*CARLOS DELGADO VIVANCO
LELAND GRIFFITH WORTHINGTON
EMANUEL FRANCIS ZALESAK

Certificate, Two-Year Course in Agriculture

HARRY HAMLIN
ARCHIBALD DOUGLAS PARRAN

JOHN NELSON POLEYETTE
CHARLES LE-KEIRTS TIMMONS

COLLEGE OF ARTS AND SCIENCES

Bachelor of Arts

GEORGE CARVILLE BOWEN
JOSEPH CHARLES BURGER
GRACE COE
JAMES LEROY DOUGALL
ELIZABETH FLENNER
WILFRED EVERETTE FROEHLICH
RALPH MCTIER GRAHAM
MINNIE MOSHER HILL
JOSEPH WELLS JONES
EDWARD FRANCIS JUSKA
GEORGE JAMES LUCKEY
JOSEPH ALPHONSE MACKO
TILGHMAN BRICE MARDEN, JR.

MARVIN R. MCCLUNG
*WILLIAM HARRISON MERRILL, JR.
LESTON CURTIS PARKS
IRVIN PEEBLES
SELWYN LAWRENCE POWERS
JOSEPH LOUIS RIVKIN
EDWARD ANDREW SCOTT
WILLIAM MARSHALL SCOTT
BRUCE TRIMMER STAMBAUGH
FELIX HONGLE TAN
RUSSELL BUNTON WHITE
*THELMA HALSAN WINKJER

Bachelor of Science

WILLIAM A. BERGER
HOUGHTON GEORGE CLAPP
ANNA HELEN EMILY DORSEY
HENRY EMERSON DUKE
EDWIN LAWSON FORD
OSWALD HERMAN GREAGER
MILLARD JACOB HORN
JOHN MACE, JR.

HOUSDEN LANE MARSHALL
MARIE MILDRED MASSICOT
MABLE MARGUERITE NASH
SAUL CHARLES NEWMAN
LOREN FLETCHER SCHOTT
JAMES L. SWANK
I. EVANS WHEATON
*N. JOHN WILSON

COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

Bachelor of Business Administration

HOWARD ELMER JACKSON
VICTOR T. SCHOTTA

MAURICE AARON WILNER

Bachelor of Commercial Science

LEON CHAYT
J. A. HLAVIN, JR.
HOWELL ATWATER KING
VICTOR JOSEPH MALLET
EUGENE DARDEN MILENER

ALBERT A. RAPPERPORT
VERNON E. SANFORD
†JAMES E. VEATH
MILLARD F. WRIGHT, JR.

† Deceased.

Certificate of Proficiency

DAVID R. BRESSLER
C. EVERETT DAWSON
C. A. LAPPE
G. EASBY LINDSAY
EDWIN A. REMLEY
OSWOLD SCHMIDT
L. B. ROWLES

BENJAMIN SNYDER
HERBERT D. THARLE
CARL LEE WANNEN
BENJAMIN WEISMAN
NATHANIEL WILLIAMS
LAWRENCE G. THOMAS

SCHOOL OF DENTISTRY

Doctor of Dental Surgery

LEONARD ABRAMSON
JULIUS LEO ALPERT
CARL PIERRE ANDRE
EDWARD ERNEST ASTON
CLYDE EVANS BASEHOAR
THEODORE ALLAN BAUM
JOHN HERBERT BEARD, A.B.
WALTER SHERMAN BENEDICT
WILLIAM JOSEPH BIRNEY
VIRGIL CLAY BLAISDELL
LLOYD O. BRIGHTFIELD
BALTHIS ALLEN BROWNING
CHARLES HERBERT BRUCE, JR.
JOSEPH FREEMAN BURT
EDWARD WARSLAW BUTKIEWICZ
SAMUEL LEWIS CAMPBELL
ENRIQUE CAPO
HERMANN CHAIM CHASE
CARROLL WILLS CHEWNING
BERNIE ODELL COBERLY
MEYER HAROLD COHEN
ERNEST MILBURN COLVIN, JR.
EURIPIDES EUGENE COSIMI
DEMETRIO CRESPO
FRANK ANTHONY CRONAUER
JOSEPH RODOLPHE WILFRED DELANEY
BRYAN AYCOCK DICKSON
C. MERLE DIXON, JR.
HOWARD RONELLA DOBLE
NICHOLAS DUDASIK
JACOB D. FISHER
CHARLES RICHARD GARRETT
HARRY GOLDSTEIN
PEDRO J. GONZALEZ

JOHN LUSARDI
DANIEL FRANCIS LYNCH
RICHARD EDWARD MCCORMICK
JOSEPH AUGUSTINE MCCROHAN
FRANK CHRISTIAN MCCRYSTAL
GEORGE FENTON MCEVOY
JACOB OWEN MCNEELY, JR.
MICHAEL ERNEST MCQUAID
WILLIAM GLENN MATNEY
MIGUEL ANGEL MERCADER
KENMORE ELIJAH MERRIAM
OSCAR WILLIAM MEYER
LEOPOLD JOSEPH MIELCAREK
MICHAEL JOSEPH MINAHAN, A.M.
NARCISO MUNERA DE LA CRUZ
JOHN DAVIDSON NEWELL
FRANK JOSEPH NOVAK
PAUL GARRETT O'LEARY
BARNEY ELWOOD OLITSKY
LINWOOD ORTEL
EPHRAIM LEE PADOLF
HYMAN LEWIS PAIKOWSKY
HARVEY RAINE PEARMAN
CHARLES MICHAEL PELUSO
ARTHUR CASEY PFOHL
FREDERICK WILLIAM PHELPS
GEORGE JACKSON PHILLIPS
CHARLES JAMES POLK
ALBERT CHARLES POWELL
GEORGE DANIEL RESH, A.B.
JAMES B. RICHARDSON
BARNEY RIEMAN
LEONARD ANTHONY ROMINO
FRED LEMUEL SCHAFF

LOUIS E. GREENWALD
RICHARD ANDREW HAGERTY
CARABED HAGOP HAKEMIAN
HOWARD VICTOR HALL
EDGAR HAM
JAMES JOSEPH HANAN
EDWARD FRANKLIN HARPER
WILLIAM ISAAC HART, JR.
CLIFFORD CARLTON HIGBY
DANIEL S. HINEBAUGH
ERNEST HENRY HINRICH
LEWIN NELSON HITCHCOCK
JOHN HOWARD HOGAN
SAMUEL HENRY HOOVER
ABRAHAM MYER JAFFE
EDWARD JOHN JERDON
GEORGE JOHN KERLEJZA
JOHN EDWARD LAROE
ALEXANDER JOSEPH LAVALLEE
JOSEPH JOHN LAWLOR
JACOB LAZARUS
FRANK LUCAS LEWIS
GEORGE HENRY LOEHWING
SAMUEL LOPATIN

EDWARD WALTER SHEA
FRANCOIS BOGGESS SHINN
ARTHUR SIEGEL
HENRY HAROLD SMITH
LOUIS A. SOROKIN
THEOPHILE CHARLES SOUSA
WILLIAM STEWART, JR., B.S.
EDWARD DANIEL STONE, JR., A.B.
HENRY NELSON TEAGUE
CECIL ALLEN THOMAS
ALLEN HOWARD THORN
ROBERT BENJAMIN TOWILL
LOUIS ULANET
ROSS DEPEW VAN AUKEN
PETER VAN LENTEN
PROVIDENCIA VIERA
HERSCHEL EVERETT WALLACE
CHARLES SHEPHERD WEBB, JR.
HERMAN HENRY WEISENGREEN
ELMER MICHAEL WILDEMANN
PAUL WILHELM
ROBERT EDGAR WILLIAMS, JR.
GEORGE ARMAND WILLIS
HOWARD BEATY WOOD

COLLEGE OF EDUCATION

Bachelor of Arts

WALTER LOUIS BOWERS
ELIZABETH SEDGWICK DUVAL
GEORGE PAGE GARDNER
*LAURA CORNELIA KING
ELIZABETH ROBERTA SWENK

*LUCILLE SYLVESTER
KATHERINE REBECCA WILLIS
THEODORA SHELBY WILLIS
ELMER AMBROSE WOLFE

Bachelor of Science

NELLIE SARAH BUCKEY
ROSCOE ZACHARIAS COBLENTZ
ALICE WADSWORTH CUSHMAN
VIRGIL O. DOLLY
L. LUCILE HILL
JOHN WINFIELD MAGRUDER

ELSIE LOUISE ORME
EDWARD LAWRENCE PUGH, JR.
WILSON O. RIGDON
MICHAEL W. WHITEFORD
MARY FRANCES WOLFE

* Received degrees October 20, 1925.

Teachers' Special Diploma

HAROLD M. BONNETT	ELSIE LOUISE ORME
WALTER LOUIS BOWERS	WILLIAM ALVIN PARLETTE
NELLIE SARAH BUCKEY	M. MYRON PRICE, JR.
ROSCOE ZACHARIAS COBLENTZ	EDWARD LAWRENCE PUGH, JR.
ALICE WADSWORTH CUSHMAN	HAROLD ALBERT REMSBERG
VIRGIL O. DOLLY	WILSON O. RIGDON
ELIZABETH SEDGWICK DUVALL	ELIZABETH ROBERTA SWENK
GEORGE PAGE GARDNER	*LUCILE SYLVESTER
PAUL BEATTY HARLAN	WILLIAM PAUL WALKER
L. LUCILE HILL	MICHAEL W. WHITEFORD
JOHN WINFIELD MAGRUDER	MARY FRANCES WOLFE

Certificates in Industrial Education

HOWARD DOWNS ASKEW	MELVIN LEROY MORITZ
WILLIAM F. HAEFNER	ALBERT GIBSON PACKARD
WILLIAM GEORGE HEALEY	HAROLD D. PETERSON
JOSEPH HUBER LETZER	HUGH WILSON

COLLEGE OF ENGINEERING

Civil Engineer

CAESAR SOLARI REVOREDO	CLYDE COOPER TARBUTTON
------------------------	------------------------

Electrical Engineer

ROBERT WILHELM HELLER

Bachelor of Science

HOWARD REFORD ALDRIDGE	WILLIAM HUGHES LEWIS
WIRT DRAPER BARTLETT	CHARLES WILLIAM LITCHFIELD
EDWIN CALEB BAUM	KENNETH FRANCIS MATTHEWS
JOHN BOWIE	WILLIAM TODD McCUNE
MERLE LEROY BOWSER	NELSON TINDALL MEEDS
DOUGLAS DAVIS BURNSIDE	LOUIS FRANCIS MELCHIOR
CHARLES C. CASTELLA	EDWARD ROANE MELTON, JR.
STANTON JOSEPH COLLINS	JOHN WAYNE MILLS
CARLTON M. COMPHER	PAUL MORRIS
ULPIANO CORONEL ZEVALLOS	R. WENDELL POWELL
WILLIAM AUGUSTIN DECAINDRY	ARTHUR G. PRANGLEY, JR.
JAMES H. FOARD	FREDERICK HELME ROGERS
WATSON I. FORD	WARRINGTON RAPHAEL SANDERS
ADDISON EASTWICK HOOK	WILLIAM B. R. FABER TROXELL
BARNWELL RHETT KING	THEODORE JOHN VANDOREN, JR.
HOWARD L. KNOX	JOHN S. WARREN, JR.
LLOYD T. KNOX	BENJAMIN WATKINS, III.
GOMER LEWIS, JR.	

* Received degrees October 20, 1925.

COLLEGE OF HOME ECONOMICS

Bachelor of Science

MARY HARBAUGH

SCHOOL OF LAW

Bachelor of Laws

HOWARD L. AARON	THOMAS JAMES KEATING, JR.
J. MAX ABRAMOWITZ	ANTHONY EUGENE KERNAN
OSCAR ABRAMSON	HERMAN WALTER KRAMER
JOHN EDWARD ADKINS, JR.	JOHN ERNEST KRATZ
GERALD RANDOLPH AIKEN	LEO KRIEGER
ELI BAER	ABRAHAM KRIEGER
ORISON WAYNE BAKER	ISIDORE ERNEST LEVIN
WILLIAM P. BARTHOLOMAY, JR.	HERMAN FRANK LEVY
J. CARROLL BARTHOLOW	JULIUS S. LEVY
JOHN BAUMANN	GEORGE BERNARD LOHMULLER
VERNAL WOODCOCK BELL	EMIL THEODORE MALLEK
JAMES LEMON BENSON	ALFRED MAZOR
CARROLL EDWARD BOUNDS	THEODORE ROOSEVELT MCKELDIN
JOHN BIRD BOWEN	ALBERT MEID, JR.
PETER JOHN BRENNAN	FREDERICK WILLIAM MEISER
IDA BRESSLER	WILLIAM ALBERT MIHM
FORREST N. BROWN	GOLDIE ROSE MILLER
JOSEPH BUCHOFF	HARRY MANUEL MILLER
JAMES C. BURCH	MAX MOSHKEVICH
HUNTINGTON CAIRNS	OLIVER SMITH MULLIKIN
NEWELL M. CALLOWAY	WILLIS ADELBERT MYERS
FRANK LOUIS CAPLAN	CHARLES FREDERICK OBRECHT
JOSEPH LLOYD CARTER	EDWARD LAMBERT PARLETT
BENJAMIN CHAMBERS	ELLIS PEREGOFF
ELLIS COHEN	SAMUEL PEREL
STEPHEN R. COLLINS	MARTIN LUTHER PITTMAN
WILBUR FRANKLIN COYLE, JR.	BERNARD U. PROSER
KENITH DAVENPORT DISNEY	EDWARD LEWIS PUTZEL
PHILIP HENRY DORSEY	ALLAN MAJOR RACE
JACOB J. EDELMAN	DOUGLAS HALL ROSE
MARCY MAX EHUDIN	BENJAMIN B. ROSENSTOCK
B. LEON FAITHFUL	JULIUS FREDERICK SANDROCK
MORRIS FEDDER	HOWARD IRWIN SCAGGS
ISIDORE B. FEINBERG	GEORGE JOHN SCHMIDT
SAMUEL HENRY FELDSTEIN	JULIUS SHEFFERMAN
JAMES STEWART FENWICK	CARL REGINALD SIEGMUND
HERBERT FINK	BENJAMIN HERMAN SILVERMAN

REUBEN FOSTER
 LOUIS J. FREEHOF
 LOUIS C. FRIED
 RALPH AUGUSTUS GAUGH
 HERMAN J. GERBER
 MEYER HENRY GETZ
 JOHN ISAAC HALE
 WILLIAM JONES HAMM
 FRANCIS HALL HAMMOND
 THOMAS BARTON HARRINGTON
 ALEXANDER COSGRAVE HARRIS
 GERTRUDE HARRIS
 GEORGE EDMUND HELFRICH
 HARRY SAMUEL HERMAN
 S. STIRLING HILL
 SIDNEY HILLMAN
 CHARLES WORTHINGTON HOFF
 GEORGE L. HOFFMAN
 HARREY NELSON HUMPHREYS
 SIGMUND R. KALLINSKY
 NORMAN KAUFMANN

SAMUEL LEON SILVERMAN
 WILLIAM SINSKY
 EDWARD ALBERT SMITH
 WILLIAM RISQUE SOWERS
 JOSEPH WILLIAM SPECTOR
 EDWARD WOODALL STEVENS
 HENRIETTA DUNLOP STONESTREET
 W. EDWARD SULTAN
 CORNELIUS FERDINAND SYBERT
 WILSON EVERETT TAYLOR
 RICHARD HENRY THOMPSON
 FRANKLIN MAGRUDER TONGUE
 ETHEL RITA VORSTEG
 JOSEPH WASE
 ROBERT DORSEY WATKINS
 ISADORE WEIL
 GABRIEL D. WELLNER
 PHILIP EARNEST WOLFE
 WILLIAM D. GILL WRIGHTSON
 ROSE SYLVAN ZETZER

SCHOOL OF MEDICINE

Doctor of Medicine

STANLEY PAUL BALCERZAK
 NICHOLAS NATALE BRIGLIA
 LEO T. BROWN
 MARSHALL PAUL BYERLY
 WILLIAM RODMAN CADLE
 PASQUALE F. CARDINALE
 JOSE CASO
 ABRAHAM ALBERT CLAHR
 JOHN MARBURG COE
 THOMAS JOSEPH COONAN
 ARTHUR ALEXANDER COPE
 BENJAMIN ROSCOE DODD
 EVA FRANOETTA DODGE
 LEONIDAS MCFERRIN DRAPER
 JACOB LOUIS DRESKIN
 JOHN SHELDON EASTLAND
 LEE WILLIAM ELGIN
 FRANCIS A. ELLIS
 HARRY HERMAN EPSTEIN
 FRANKLIN REDMAN EVERETT
 HENRY WILSON FANCHER, JR.

WILLIAM KENNETH KNOTTS
 EDWARD RAYMOND LAUS
 GEORGE FRANKLIN LEIBENSPERGER
 WILLIAM EARLE LENNON
 SAMUEL ARTHUR LINDE
 DANIEL LONDON
 CLAUDE MILTON LOWE
 ALFRED LOOMIS McANALLY
 EDGAR RAYMOND MILLER
 CHARLES A. MINNEFOR
 ANTHONY CARMEN MONTANI
 JOSEPH NATARO
 VICENTE AGUIRRE NAVARRO
 JAMES WHARTON NELSON
 RANDOLPH MAXWELL NOCK
 HENRY OSHRIN
 MYER MORDECAI PINSKY
 EDWIN PLASSNIG
 JOSEPH LOUIS POLIZZOTTI
 LEO EDWARD PULASKI
 ISADORE RATHSPRECHER

RAPHAEL FARBER
 ABIJAH CLEMENTS FIELDS
 HAROLD H. FISCHMAN
 BERNARD FRIEDMAN
 ABNER M. FUCHS
 LOUIS HARRY GALE
 WILLIAM BRYAN GASTON
 WILBUR ELTON GATTENS
 SAMUEL GLICK
 HUBERT TAYLOR GURLEY
 CECIL MAURICE HALL
 KENT CATO HAMMOND
 ALPHA NATHAN HERBERT
 BEN HERTZ
 RALPH HAYES HOFER
 JAMES GERALD HOWELL
 JAROSLAV HULLA
 MORRIS ALBERT JACOBS
 JOHN PATRICK KEATING
 JOSEPH WILLIAM KIMBROUGH, JR.

KNIGHT REYNOLDS
 LEWIS CASS RICHMOND, JR.
 BRYAN NAZER ROBERTS
 JACK SARNOFF
 JACOB MAURICE SILVERSTEIN
 JACOB RALPH SIMON
 HENRY HARDY SIMPSON
 WILLIAM ALLEN SINTON
 WALTER WILLIAM SPELSBURG
 WILLIAM RICHARD SULMAN
 MICHAEL FRANCIS TOMAIUOLI
 THOMAS BOURNE TURNER
 JAIME VILA-MORALES
 JOSEPH ALBERT VISCONTI
 WILLIAM TITUS WARD
 MARTIN MAX WASSERSWEIG
 ROBERT SAMUEL WIDMEYER
 JOSEPH WIENER
 PAUL RUSSELL WILSON
 JOHN LINDSAY WINSTEAD
 CHARLES C. ZIMMERMAN

SCHOOL OF NURSING

Graduate in Nursing

ALBERTA BARR
 MILDRED MARIE CROLL
 MARY ELIZABETH CANNON
 ZELDA BLANCHE COULTER
 ANNA LOUISE FORREST
 ESTHER EVAGELINE FRICK
 GRACE FLETCHER
 MARY AGNES HATHCOCK

MATTIE M. KIRTNER
 MYRTLE MARSTELLA NOCK
 MARY STERLING SCOTT
 MYRTLE IVA SHATZER
 LAURA ANNA WALL
 MYRTLE ESTELLA WHITLEY
 CHARLOTTE ELIZABETH WALTER

SCHOOL OF PHARMACY

Graduate in Pharmacy

SILVIO A. ALESSI
 HENRY HARRISON AUSTRAY
 RAY S. BARE
 HENRY D. BONGIORNO
 ELMON HERMAN CALMEN
 HOWARD HYMAN CAPLAN
 NATHAN NORMAN COOPER
 MEYER DAVIDSON
 ISRAEL FREED

IRVIN N. LIPSKY
 GEORGE BENJAMIN McCALL
 JAMES ROSS McCOMAS, JR.
 VICTOR G. MERCER
 JOSEPH JAMES NEUMANN
 NATHAN NOVECK
 MATHIAS PALMER
 J. ALLAN IRELAND PARKER
 BENJAMIN FRANKLIN PICKETT

NATHAN JOSEPH FRIEDMAN
 ABRAM GOLDMAN
 ISADORE GORAN
 ABRAM MORTON GREENBERG
 DAVID HECKER
 UP SHUR KERR HENDERSON, JR.
 SAMUEL P. JEPPI
 KARL HENRY KASTEN
 ALBERT KERMISCH
 SOLOMON KLEIN
 HERMAN MYLENS KLING
 SAMUEL EDWARD KRAMER
 MARIAN FRANCES LAROE
 HELEN ARVILLA LEONARD
 ERNEST LEVI
 HENRY LEVINSON
 EDWARD S. LEVY

GEORGE JOSEPH POLTILOVE
 SAMUEL I. RAICHLEIN
 CHARLES EDWARD RAWE
 ROBERT SAVAGE
 PAUL SCHOCHET
 JACOB SERPICK
 LAWRENCE M. SERRA
 MAX SHAPIRO
 EMANUEL VERITUS SHULMAN
 ISIDORE SMULOVITZ
 MILTON MAURICE SMULSON
 NATHAN SNYDER
 IRVING TOPCHIK
 GEORGE WILLIAM VOGEL
 RICHARD H. WATERMAN
 JOHN J. WICKHAM

Pharmaceutical Chemist

GUY CHARLTON KELLEY

FRANK J. SLAMA

MEDALS, PRIZES AND HONORS, 1925

Elected Members of the Phi Kappa Phi, the Honorary Fraternity

HOWARD REFORD ALDRIDGE
 HAROLD M. BONNETT
 GEORGE CARVILLE BOWEN
 HORACE DILWORTH BUCKMAN
 CHARLES C. CASTELLA
 HOUGHTON GEORGE CLAPP
 ULPiano CORONEL ZEVALLOS
 WALKER MYRICK DAWSON
 ELIZABETH SEDGWICK DUVALL
 ELIZABETH FLENNER
 GEORGE PAGE GARDNER
 OSWALD HERMAN GREAGER

MINNIE MOSHER HILL
 MILLARD JACOB HORN
 BARNWELL RHETT KING
 KENNETH FRANCIS MATTHEWS
 LOUIS FRANCIS MELCHIOR
 ARTHUR G. PRANGLEY, JR.
 JOSEPH LOUIS RIVKIN
 CHARLES SHOEMAKER
 ELIZABETH ROBERTA SWENK
 LELAND GRIFFITH WORTHINGTON
 MARY FRANCES WOLFE

Citizenship Medal, offered by Mr. H. C. Byrd, Class of 1908

WALTER DAVIS BROMLEY

Citizenship Prize, offered by Mrs. Albert F. Woods

MINNIE MOSHER HILL

Athletic Medal, offered by the Class of 1908

JOSEPH CHARLES BURGER

Goddard Medals, offered by Mrs. Annie K. Goddard James
 GEORGE CARVILLE BOWEN
 EDWARD ELLESMERE McKEIGE

Alumni Association Debate Medal

J. FRANKLIN WITTER

Sigma Phi Sigma Freshman Medal

VIRGINIA SPENCE PRICE

Alpha Zeta Agricultural Freshman Medal

BURWELL BRITT POWELL

Dinah Berman Memorial Medal, offered by Benjamin Berman

KENNETH FRANKLIN SPENCE

Public Speaking Prize, offered by W. D. Porter

JOHN S. WARREN

The Oratorical Association of Maryland Colleges offers each year Gold Medals for the First and Second Places in an Oratorical Contest

Medal for first place awarded to

CHARLES CLARKE BEACH

"President's Cup," for Excellence in Debate, offered by Dr. H. J. Patterson

POE LITERARY SOCIETY

"Governor's Drill Cup," offered by His Excellency, Honorable Albert C. Ritchie, Governor of Maryland

COMPANY C—COMMANDED BY CADET CAPTAIN JOHN F. SULLIVAN

President's Military Prize, offered by Dr. Albert F. Woods

CADET LIEUTENANT-COLONEL JOSEPH C. BURGER

Military Medal, offered by the Class of 1899

CADET LIEUTENANT GEORGE E. MELCHIOR, JR.

Inspection Day Cup, offered by Saks & Co.

COMPANY B—COMMANDED BY CADET CAPTAIN JOHN H. BAKER

Washington Chapter Alumni Military Cup

FIRST PLATOON, COMPANY B—COMMANDED BY FIRST LIEUTENANT ARTHUR G. PRANGLEY, JR.

Rifle Cup, offered by Military Department

SOPHOMORE CLASS

WAR DEPARTMENT AWARDS OF COMMISSIONS AS SECOND LIEUTENANTS IN THE INFANTRY RESERVE CORPS

JOHN HARMAN BAKER	JAMES H. HUBBARD
GEORGE E. BOUIS	BARNWELL RHETT KING
MERLE LEROY BOWSER	JOSEPH WELLS JONES
JOSEPH CHARLES BURGER	WILLIAM HARRISON MERRILL, JR.
DOUGLAS DAVIS BURNSIDE	PAUL MORRIS
CHARLES C. CASTELLA	WILBUR PEARCE
HOUGHTON GEORGE CLAPP	SELWYN LAWRENCE POWERS
JAMES LEROY DOUGALL	ARTHUR C. PRANGLEY, JR.
EDWIN LAWSON FORD	FREDERICK HELME ROGERS
GEORGE PAGE GARDNER	DANIEL R. STALEY
PAUL BEATTY HARLAN	JOHN FRANCIS SULLIVAN
GEORGE REGINALD HEINE	EMANUEL FRANCIS ZALESAK
JOHN FRANCIS HOUGH	

AWARDS OF MILITARY COMMISSIONS

JOSEPH CHARLES BURGER	Lieutenant Colonel
EMANUEL FRANCIS ZALESAK	Major
GEORGE REGINALD HEINE	First Lieutenant Adjutant
JOHN FRANCIS HOUGH	First Lieutenant Supply Officer
JOHN HARMAN BAKER	Captain
DOUGLAS DAVIS BURNSIDE	Captain
GEORGE PAGE GARDNER	Captain
JOHN FRANCIS SULLIVAN	Captain
GEORGE E. BOUIS	First Lieutenant
CHARLES C. CASTELLA	First Lieutenant
HOUGHTON GEORGE CLAPP	First Lieutenant
JAMES LEROY DOUGALL	First Lieutenant
PAUL BEATTY HARLAN	First Lieutenant
BARNWELL RHETT KING	First Lieutenant
JOSEPH WELLS JONES	First Lieutenant
WILLIAM HARRISON MERRILL, JR.	First Lieutenant

PAUL MORRIS
WILBUR PEARCE
SELWYN LAWRENCE POWERS
ARTHUR G. PRANGLEY, JR.
FREDERICK HELME ROGERS
MERLE LEROY BOWSER
EDWIN LAWSON FORD
JAMES H. HUBBARD
DANIEL R. STALEY

First Lieutenant
First Lieutenant
First Lieutenant
First Lieutenant
First Lieutenant
Second Lieutenant
Second Lieutenant
Second Lieutenant
Second Lieutenant

HONORABLE MENTION

College of Agriculture

First Honors—WALKER MYRICK DAWSON, LELAND GRIFFITH WORTHINGTON,
HAROLD M. BONNETT
Second Honors—CHARLES SHOEMAKER

College of Arts and Sciences

First Honors—HOUGHTON GEORGE CLAPP, OSWALD HERMAN GREAGER,
JOSEPH LOUIS RIVKIN
Second Honors—MINNIE MOSHER HILL, MILLARD JACOB HORN,
GEORGE CARVILLE BOWEN, ELIZABETH FLENNER

College of Education

First Honors—ELIZABETH ROBERTA SWENK
Second Honors—ELIZABETH SEDGWICH DUVALL, MARY FRANCES WOLFE

College of Engineering

First Honors—CHARLES C. CASTELLA, KENNETH FRANCIS MATTHEWS,
ULPIANO CORONEL ZEVALLOS
Second Honors—ARTHUR G. PRANGLEY, JR., LOUIS FRANCIS MELCHIOR,
HOWARD REFORD ALDRIDGE

College of Commerce and Business Administration

Delta Sigma Pi Fraternity Gold Key to Male Students for Highest Scholarship
HOWELL A. KING

School of Dentistry

University Gold Medal for Scholarship
LLOYD O. BRIGHTFIELD
HERSCHEL EVERETT WALLACE

Honorable Mention

BALTHIS ALLEN BROWNING
WILLIAM STEWART, JR.

ERNEST HENRY HINRICHS
FRED LEMUEL SCHAFF

School of Law

Prize of \$100 for the highest average grade for the entire course
ROBERT DORSEY WATKINS

Prize of \$100 for the most meritorious thesis
HUNTINGTON CAIRNS

Honorable mention for average grade over ninety-five per cent for the entire course

EDWARD LEWIS PUTZEL, JULIUS SHEFFERMAN, JOSEPH WILLIAM SPECTOR

Alumni Prize of \$50 for winning Honor Case in the Practice Court
THEODORE ROOSEVELT MCKELDIN

School of Medicine

University Prize, Gold Medal—EDGAR RAYMOND MILLER

CERTIFICATE OF HONOR

THOMAS BOURNE TURNER
ALPHA NATHAN HERBERT

HAROLD H. FISCHMAN
BEN HERTZ

ISADORE RATHSPRECHER

The Dr. Jose L. Hirsch Memorial Prize of \$50 for Excellence in Pathology during the second and third years
THOMAS JOSEPH CONAN, A.B.

School of Nursing

University of Maryland Nurses' Alumnae Association Scholarship to Columbia University
MYRTLE MARSTELLA NOCK

University of Maryland Nurses' Alumnae Association Pin and Membership in the Association
MYRTLE ESTELLA WHITLEY

School of Pharmacy

Gold Medal for General Excellence—EMANUEL VERITUS SHULMAN
Simon Prize for Practical Chemistry—EMANUEL VERITUS SHULMAN

CERTIFICATE OF HONOR

ABRAM MORTON GREENBERG

Honorable Mention—First Year Class

HARRY GINSBERG

ALBERT CHRISTIAN GAKENHEIMER

DAVID STANFORD CLAYMAN

**BATTALION ORGANIZATION R. O. T. C. UNIT
UNIVERSITY OF MARYLAND**

JOSEPH B. SETH, Lieut.-Colonel, Unit Commander
M. STEWART WHALEY, Major, Commanding Battalion
E. ELLESMERE McKEIGE, First Lieut.-Adjutant
WILLIAM R. TRIMBLE, First Lieut.-Supply Officer

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Alfred H. Clark

William E. Bishop
Leland H. Cheek

Arthur E. Bonnet
Thomas B. Crawford
J. Leonard Jones
Lawrence L. Lehman
Edward G. Danner

Wade H. Elgin

Edward B. Marks
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Mallery O. Wooster
Kenneth Petrie
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L. W. Thomas
D. Whelchel
J. F. Witter

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E. Russell Allen

First Lieutenants, Second in Command
W. Gilbert Dent

First Lieutenants
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Edward S. Thompson

Second Lieutenants
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Theodore W. Johnson
Lionel E. Newcomer
Ernest H. Shipley

NON-COMMISSIONED STAFF

First Sergeants

Kenneth F. Spence

Platoon Sergeants

Leroy W. Sheriff
Samuel L. Crosthwait

Sergeants

Adam M. Noll
Wilbur M. Leaf
William S. Hill
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A. Knight
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J. A. Mathews
N. G. Schuman
E. L. Troth
H. W. Wells
C. O. Wirts

CADET BAND

Band under direction of Warrant Officer, James Simmons, Army Music School, Washington Barracks, Washington, D. C.

Captain

Edward M. Barron

First Sergeant

William L. Peverill

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<p>Abrams, George J., Washington, D. C. Bennett, Charles L., Upper Marlboro Bishoff, G. Emerson, Oakland Bowyer, Thomas S., Towson Brinsfield, Carroll S., Cordova Coffman, Richard E., Hagerstown Cole, Cecil F., Fulton Conner, M. Helen, Washington, D. C. Cottman, Harry T., Pocomoke Crosthwait, Samuel L., Hyattsville Dallas, David, Salisbury Downey, Mylo S., Williamsport England, G. William, Rising Sun Gray, James G., Riverdale</p>	<p>Gunby, Paul B., Marion Station Higgins, Warren T., Hyattsville Kapp, Robert P., Ellerslie Krein, John G., Baltimore Moore, William H., Boyds Nock, Alton E., Stockton *Romjue, Andrew G., Capitol Heights Schmidt, Englebert H., Washington, D. C. Shear, G. Myron, Rosslyn, Va. Shipley, Ernest H., Frederick Tenney, Edward M., Jr., Hagerstown Thornton, Norwood C., Chesapeake City Yost, Henry C., Grantsville</p>
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SOPHOMORE CLASS

<p>Adams, Donald H., Chevy Chase Ady, Samuel J., Sharon Bonnett, Richard D., Washington, D. C.</p>	<p>Brown, Henry, Washington, D. C. Carrington, O. Raymond, S. Orange, N. J. Chapman, W. Walter, Jr., Chestertown</p>
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* Denotes students detailed to the University by the Veterans' Bureau.

Chavarria, Rafael A., San Jose, Costa Rica
 Dunnigan, John E., Pylesville
 Eaton, Norwood A., Washington, D. C.
 Fahey, Daniel C., Jr., Riverdale
 Garden, William M., Anacostia, D. C.
 Harrison, Joseph G., Berlin
 Harrison, I. Burbage, Berlin
 Linkous, Fred C., Pylesville
 *McCabe, Henry L., Washington, D. C.
 McCurdy, Mary Jane, Woodside
 Miller, Bernard H., Hampstead
 Molesworth, Samuel R., Mt. Airy

Phucas, Andrew B., Washington, D. C.
 *Powell, Bartwell B., College Park
 Reich, Geneva E., Washington, D. C.
 Sachs, Mendes H., Baltimore
 Sewell, Reese L., Ridgely
 Stanton, Harry H., Grantsville
 Timmons, Charles L., Snow Hill
 Voorhees, Frederick T., Washington, D. C.
 Winterberg, Samuel H., Grantsville
 Witter, J. Franklin, Frederick
 Woodward, John R., Washington, D. C.

FRESHMAN CLASS

Brown, Robert A., Silver Spring
 Chandler, Leland W., Clarendon, Va.
 Cockerill, William H., Purcellville, Va.
 Cooper, William C., Salisbury
 Dix, Jefferson, Jr., College Park
 Galbreath, Paul M., Street
 Hamilton, Arthur B., Darlington
 Helldorfer, Joseph O., Baltimore
 Hershberger, Merl F., Grantsville
 Hughes, George B., Jr., Ammendale
 Klair, William F., Havre de Grace
 LaRue, Loraine S., Washington, D. C.
 Long, Joseph C., Ridgely
 McCormick, Howard A., Raspebury

Nestler, Ralph B., Washington, D. C.
 Nevius, Joseph D., Branchville
 Powell, James F., Princess Anne
 Prince, David O., Ilchester
 Ramsburg, Elmer K., Lewistown
 Rider, William L., Mt. Rainier
 Romary, Raymond J., Ridgewood, N. J.
 Smith, Ross V., Frederick
 Strasburger, Lawrence W., Baltimore
 Stubbs, Donald S., Streett
 Tetter, William R., Lewisville, Pa.
 Tobie, George C., Portland, Me.
 Washburn, H. Homer, Lutherville
 Zahn, Delbert L., Washington, D. C.

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 Levvy, Francis, Washington, D. C.

Seabold, Charles W., Glendon
 Webster, J. William, Hancock

UNCLASSIFIED

Anderson, Howard H., Princess Anne
 Campbell, Thomas A., Hyattsville
 Gonzalez, Javier, Apalit, Philippine Islands

Stewart, Harry A., Rustburg, Va.
 Suter, Thomas, Washington, D. C.

WINTER SHORT COURSE IN DAIRYING

Ayres, Irvin E., White Hall
 Boyles, Charles W., Manassas, Va.
 Gerken, Hubert J., Fort Myer, Va.
 Gill, Henry, Chestertown
 Goad, Elihu, Norrisville

McGrady, Francis G., Rising Sun
 Ritter, Theodore R., Manassas, Va.
 Ward, Joshua B., Jarrettsville
 Worrell, Walter M., White Hall

WINTER SHORT COURSE IN SWINE AND SHEEP PRODUCTION

Harvey, D. O., Kitzmiller

Shaney, William, Cynwyd, Pa.

WINTER SHORT COURSE IN HORTICULTURE

Akers, L. B., North East
Hook, C. R., Salisbury
Hughes, C. H., Picardy

Kshir, John, North East
White, Paul, Bowie

ADVANCED HORTICULTURAL SHORT COURSE

Allen, Albert, Salisbury
Allen, Fenton, Salisbury
Allen, W. Lee, Salisbury
Bengham, W. O., St. Thomas
Bond, A. B., Winchester, Va.
Bower, Roland, Clearspring
Brown, M. M., Martinsburg, W. Va.
Browse, R. J., Charlestown, W. Va.
Burdette, John, La Plata
Byrd, G. B., Winchester, Va.
Canby, Rust, Silver Springs
Carpenter, G. L. S., Hancock
Cation, Donald, Ortanna, Pa.
Clohan, Arch E., Cherry Run, W. Va.
Close, C. P., College Park
Cohill, Andy, Hancock
Cohill, Leo, Clearspring
Cook, G. A., Leesburg, Va.
Dicken, W. M., Levels, Va.
Diehl, Edgar, St. Thomas, Pa.
Englar, Walter, New Windsor
Fulton, M. W., Cherry Run, W. Va.
Gillan, C. Frank, St. Thomas, Pa.
Gillan, R. Johnson, St. Thomas, Pa.
Goldsborough, E. L., Shepherdstown, W. Va.
Green, C. A., I. V. Y., Depot, Va.
Grove, W. E., Chambersburg, Pa.
Hanson, A. J., Ellicott City
Hanson, Frank, Ellicott City
Hanson, L. R., Ellicott City
Hanson, R. C., Ellicott City
Harrison, Jack, Berlin

Hawkins, Paul, Snow Hill
Hughes, Cliff, Picardy
Karr, Sydney, Hancock
Kinnes, H. E., Leesburg, Va.
Leatherman, E. A., Rada, W. Va.
Lupton, McSherry, Winchester, Va.
Massey, W. P., Winchester, Va.
McCain, E. D., Frederick
McCandlish, Robert, Hancock
McDonald, Ernest, Inwood, W. Va.
McDonald, John Y., Charlestown, W. Va.
Miller, D. Gold, Gerrardstown, W. Va.
Miller, H. W., Paw Paw, W. Va.
Miller, L. P., Paw Paw, W. Va.
Moore, M. D., Hagerstown
Newcomer, Aaron, Smithsburg
Pickens, Sale A., Berlin
Pratt, A. N., Milton, Del.
Richardson, H. C., Wyoming, Del.
Robinson, Frank, Ranson, W. Va.
Silver, Gray, Martinsburg, W. Va.
Smith, C. W., Bridgeville, Del.
Smith, R. D., Bridgeville, Del.
Staples, G. E., Bridgeville, Del.
Thomas, A. B., Wyoming, Del.
Towson, A. L., Smithsburg
Upshall, U. P., Vineland, Ontario, Canada
Willard, Paul, Frederick
Wood, Cecil, Martinsburg, W. Va.
Waite, M. B., Washington, D. C.
Walker, W. A., Mt. Airy

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SENIOR CLASS

Baumgardner, George M., Emmitsburg
Bonnett, Harold A., Washington, D. C.
Bounds, James H., Salisbury
Browne, Tom A., Chevy Chase
Christmas, Edward A., Upper Marlboro
Clark, Alfred H., Washington, D. C.
Clement, Eugenia W., Washington, D. C.
Dent, Wade Gilbert Jr., Clinton
Doyle, Sister Mary C., Baltimore
Evans, Edward T., Cumberland
Fleming, Christian M., Baltimore
Fogg, George W., Bangor, Me.
Garner, Sister Mary F., Baltimore

Goldman, Helen M., New York, N. Y.
Gould, Helen, Baltimore
Green, Winship I., Kensington
Holmes, George K., Washington, D. C.
Hopwood, Mason H., Washington, D. C.
Huffington, Paul E., Allen
Lanigan, John R., Washington, D. C.
Lohse, Edward M., Washington, D. C.
Longyear, Edward B., Poplar Hill
McDonald, Charles K., Barton
Metzeroth, Eric C., Washington, D. C.
Merrick, Charles H. R., Barclay
O'Neil, George T., Silver Springs

Parsons, Arthur C., Ormsby, Pa.
Pfeiffer, Karl G., Washington, D. C.
Reading, Hugh D., Rockville
Rice, John E., Frederick
Ryan, Sister Mary H., Baltimore
Savage, Mary E., Rockville
Scott, Fred S., Galax, Virginia
Shepard, C. Margaret, Hyattsville
Stoner, Kenneth G., Hagerstown

Stoutenburgh, Sister Mary A., Baltimore
Strite, John H., Clearspring
Tan, Joseph, Chen-chow-fu, Amoy, China
Taylor, Ritchie P., Washington, D. C.
Taylor, Thelma I., Washington, D. C.
Tingley, Egbert F., Hyattsville
Wilson, Sister Mary J., Baltimore
Wolf, Patricia, New York, N. Y.
Wright, Nadia V., Washington, D. C.

JUNIOR CLASS

Atkinson, Rachael B., Washington, D. C.
Barber, Charles T., Hagerstown
Baumgartner, Eugene I., Oakland
Beach, Charles C., Washington, D. C.
Beavens, Elmer A., Washington, D. C.
Behring, Julia L., Washington, D. C.
Berkowitz, Rudolph, New York, N. Y.
Bottum, Merritt H., Glen Rock, N. J.
Bowman, Craig, Rockville
Brightman, C. Gordon, Jr., Baltimore
Bromley, Luther F., Stockton
Bucciarelli, John A., New Caanan, Conn.
Burns, J. Howard, Sparrow's Point
Cardwell, John L., Washington, D. C.
Carrozza, C. J., New York, N. Y.
Cerreto, Frank, Newark, N. J.
Chaffinch, Elizabeth G., Easton
Chenowith, Anna B., Baltimore
Cheek, Leland H., Washington, D. C.
Cioffi, Eugene E., Fordham, N. Y.
Clayton, Thomson B., Chevy Chase
DeRan, Alice A., Pylesville
Dunnigan, Sister Mary V., Baltimore
Fisher, Samuel, Paterson, N. J.
Fisher, William A., Washington, D. C.
Flaxman, Harry, Hartford
Frazier, Karl B., Hurlock
Glenum, Harry, Washington, D. C.
Granger, Albert F., Katiskill Bay, N. Y.
Halper, Arthur M., New York, N. Y.
Heiss, Maxine, Washington, D. C.
Herzog, Fred C., Washington, D. C.
Hill, William S., Upper Marlboro
Holbein, Sister Mary H., Baltimore
Hornbaker, John H., Hagerstown
Johnson, Marius P., Hartford, Conn.
Jones, Joseph L., Sparrows Point
Kelchner, Harry J., Palmerton, Pa.
Kermisch, Albert, Baltimore

Leaf, W. Munroe, Washington, D. C.
Lipkin, Benjamin A., Paterson, N. J.
Luckey, Robert B., Hyattsville
McCabe, Sister Mary L., Baltimore
McGreevy, Joan F., Washington, D. C.
McInerney, John M., Washington, D. C.
McMinimy, Winifred M., Woodridge, D. C.
Mead, Irene C., College Park
Melchior, George E., College Park
Miller, James A., Reisterstown
Moler, Bernice V., Hyattsville
Nevitt, Lillian B., Colonial Beach, Va.
O'Donnell, Roger, Jr., Washington, D. C.
Perdue, Catharine, Salisbury
Petruska, Albert J., Washington, D. C.
Propst, Cecil F., Laurel
Riley, Terrence G., Sharptown
Rothgeb, Edwin E., Washington, D. C.
Russamanno, Raymond J., Newark, N. J.
Sasscer, Buchanan B., Upper Marlboro
Seal, Eleanor C., Takoma Park, D. C.
Seltzer, Olive M., Washington, D. C.
Sheriff, Leroy W., Landover
Shipley, L. Parks, Hyattsville
Sims, Martha T., Washington, D. C.
Snyder, Wilbur N., Randallstown
Spence, Mary, College Park
Spinney, Archie, Baltimore
Sprecher, Milford H., Fairplay
Stevenson, Kathryn C., Mt. Lake Park
Sumner, Howard C., Washington, D. C.
Taylor, Elizabeth J., Washington, D. C.
Terhune, Frank H., Ridgewood, N. J.
Tippett, Howard G., Cheltenham
Tonkin, John, College Park
Truesdale, Phillip B., Waupaca, Wis.
Wentzel, Alton A., Carlisle, Pa.
White, Iris, Salisbury
Wilson, Robert J., Buffalo, N. Y.

SOPHOMORE CLASS

Aldrey, Jorge M., San Juan, Porto Rico
Artzberger, George A., Jr., Ridgewood, N. J.
Bafford, Joseph H., Solomons
Baker, Wyrt P., Washington, D. C.
Baldwin, Kenneth M., Baltimore
Barr, William C., Jr., Washington, D. C.

Blanz, Clarence D., Washington, D. C.
Bowie, Andrew K., Riverdale
Brackbill, Frank Y., Berwyn
Brayshaw, Thomas H., Glen Burnie
Brubaker, Robert H., Mt. Joy, Pa.
Burleigh, William, Jr., College Park

Burnside, Edna M., Pittsburgh, Pa.
 Calandrella, Ralph, New Haven, Conn.
 Campbell, Neil P., Washington, D. C.
 Carpenter, Francis L., Mt. Victoria
 Carrico, Louis G., Bryantown
 Cheek, William R., Washington, D. C.
 Church, Constance, Beltsville
 Clements, Rocco F., Lucerne, Pa.
 Collins, George B., Lanham
 Collins, Milton S., Berlin
 Cooper, Roger N., Parkton
 Cramer, Elmer R., Hagerstown
 Currier, Rodney P., Washington, D. C.
 DeMarco, James A., Washington, D. C.
 DeRan, James J., Pylesville
 Dick, J. McFadden, Salisbury
 Eastlack, William L., Camden, N. J.
 Eckert, Evelyn V., North Beach
 Elliott, Thelma A., Washington, D. C.
 Essex, Alma F., Lanham
 Evans, Frederick H., Washington, D. C.
 Faith, William L., Hancock
 Gadd, John D., Centreville
 Geller, Samuel, Newark, N. J.
 Gersten, Paul F., Brooklyn, N. Y.
 Gibson, Stuart B., Williamsport, Pa.
 Ginewsky, Solomon I., Hartford, Conn.
 Goldstein, Robert, Newark, N. J.
 Greenblatt, Harold F., New London, Conn.
 Greenlaw, Irving R., Ridgewood, N. J.
 Gruver, Frances I., Hyattsville
 Haimowicz, Samuel J., Union City, N. J.
 Hay, John O., Kensington
 Hoage, Alden, Washington, D. C.
 Hoar, Robert E., Ridgewood, N. J.
 Hodgeson, Raymond B., Silver Spring
 Howard, Paul T., Washington, D. C.
 Hubbard, Henry F., Chevy Chase
 Hunt, Ione, Berwyn
 Jacobs, Herman, Brooklyn, N. Y.
 Jones, Joseph M., Pittsville
 Jones, J. Russell, Laurel
 Knight, Albin F., Rockville
 Lanier, Eldred S., Washington, D. C.
 Lebowitz, Louis, Mt. Rainier
 Leschinsky, Frank A., Annapolis Junction
 Lewandoski, Henry C., Baltimore
 Lewis, Frank, Whaleyville
 Longenberger, Donald T., Chevy Chase
 Louft, Rubin, Capital Heights
 Lubin, Paul, Baltimore
 Maps, John E., Asbury Park, N. J.
 Markwood, Emmett H., Washington, D. C.
 Marlow, Louise, College Park
 Marrero, Juan B., Dorado, Porto Rico

FRESHMAN CLASS

Aaronson, Franklyn M., Aberdeen
 Abel, Jeffrey A., Washington, D. C.
 Acosta, Raul, Aquadilla, P. R.

Mauck, Buford W., Washington, D. C.
 McCabe, Joe I., Baltimore
 McEntee, Howard G., Ridgewood, N. J.
 McFadden, Emory L., Pylesville
 McGann, Burton A., Washington, D. C.
 Merrill, Charles M., Washington, D. C.
 Middleton, Frederic A., Washington, D. C.
 Miliner, Nona A., Stevensville
 Miller, Charles M., Baltimore
 Miller, Isaac, Bergen, N. J.
 Myers, John A., Washington, D. C.
 Nadal, Jesus M., Mayaguez, Porto Rico
 Newman, A. Carlton, Jr., Bellevue
 Nocera, Frank Jr., Mayaguez, Porto Rico
 Olds, Edson B., Jr., Silver Springs
 Phillips, Elizabeth C., Hebron
 Powers, Ralph W., Hyattsville
 Press, William H., Washington, D. C.
 Robbin, Barney M., Washington, D. C.
 Romano, Nicholas M., Roseto, Pa.
 Rosenstein, Sidney, Hudson, N. J.
 Rozum, John C., Sloatsburg, N. Y.
 Ryerson, John E., Washington, D. C.
 Sanborn, Sherman K., Friendship Heights
 Savage, John E., Washington, D. C.
 Schaefer, Alfred H., Baltimore
 Schuman, Nathan G., Washington, D. C.
 Shoemaker, Norman, Point Pleasant Beach, N. J.
 Shook, Donald E., Washington, D. C.
 Sichi, William T., Washington, D. C.
 Simonds, Florence M., Herndon, Va.
 Sleasman, Charles W., Smithsburg
 Slemmer, Carl F., Cumberland
 Snouffer, E. Nelson, Buckeystown
 Snouffer, Roger V., Buckeystown
 Spottswood, Henry N., Washington, D. C.
 Thompson, Nova O., Cumberland
 Travieso, Luis F., San Juan, Porto Rico
 Troth, Edward L., Chevy Chase
 Van Sickler, Carr T., Washington, D. C.
 Venezky, Adelyn B., Hyattsville
 Waller, William K., Queenstown
 Ward, Herbert K., Rockville
 Weiland, Glenn S., Hagerstown
 Weisman, Ephraim, Baltimore
 Wilburn, Harry W., Eldon, Iowa
 Wirsing, Floyd H., College Park
 Wirts, Carl A., Pittsburgh, Pa.
 Wood, Emily T., Frederick
 Wood, May Louise, Boyd
 Woodward, George A., Annapolis
 Young, Ralph F., Hagerstown
 Zulick, James E., Houtzdale, Pa.
 Zupnick, Howard L., New Freedom, Pa.

Alagia, Lucia C., Elkton
 Alexander, James F., Chevy Chase
 Aman, George, Hyattsville

Anders, John A., Westminster
 Anderson, Gilbert F., Townshend
 Archer, Katherine V., Pylesville
 Arnold, George W., Hyattsville
 Atkinson, Eva L., Washington, D. C.
 Baldwin, Florence G., Washington, D. C.
 Barnard, Ruth, Perryville
 Balin, Irving, Passaic, N. J.
 Baron, Ruth W., Cumberland
 Bass, Sidney, Mt. Rainier
 Basson, Nathan H., New Britain, Conn.
 Benedetti, Roberto A., Panama
 Berkelhammer, Albert M., Trenton, N. J.
 Billmeyer, Bruce R., Cumberland
 Birch, David S., Chevy Chase
 Black, Harvey R., Jr., Hanover, Pa.
 Blandford, William W., Catonsville
 Bobys, Maurice, Washington, D. C.
 Boyer, Roswell R., Baltimore
 Boyer, Winfred E., Washington, D. C.
 Bradley, William O., Washington, D. C.
 Bradstreet, Frederick E., New Haven, Conn.
 Brophy, Thomas L., Benovo, Pa.
 Burgess, Esther, Washington, D. C.
 Burroughs, George T. D., Upper Marlboro
 Bushong, James C., Breathedville
 Byrd, Louis M., Salisbury
 Byrne, Julian C., Dorchester, Mass.
 Cable, John W., III, Chewsville
 Caldwell, Stuart A., Riverdale
 Cameron, Virginia, Hyattsville
 Cichowicz, John J., Cleveland, Ohio
 Clark, R. Duncan, Chevy Chase
 Clayton, Albert W., Brookland, D. C.
 Collins, Carlton, Jr., Washington, D. C.
 Conner, Reede, Washington, D. C.
 Conrey, Elden E., Randallstown
 Corkins, Jane E., Riverdale
 Crecca, Anthony D., Newark, N. J.
 Creed, Eugene, Jr., Frederick
 Cross, Mildred A., Linthicum Heights
 Crothers, Omar D., Jr., Elkton
 Davolos, Joseph J., Wilmington, Del.
 DeBartolomeis, Julius P., Wilmington, Del.
 Denton, Charles A., Mutual
 Diamond, Joseph G., Long Branch, N. J.
 DiStasio, Frank, New Haven, Conn.
 Donaldson, Alton L., Laurel
 Donaldson, Frank D., Laurel
 Doukas, James T., Towson
 Dragon, Bernard M., Baltimore
 Dumler, John C., Baltimore
 Durso, Michael J., Washington, D. C.
 Earnshaw, George B., Riverdale
 Ehrenkranz, Emanuel, Harrison, N. J.
 Epstein, Herman, Centreville
 Estes, Robert M., Washington, D. C.
 Famous, Curtis L., Streett
 Fisher, Paul L., Washington, D. C.

Fletcher, William, Takoma Park, D. C.
 Flynn, Eileen E., Mt. Rainier
 Foreman, Claire L., Washington, D. C.
 Fram, Morris D., Cumberland
 Frazee, Albert C., Oldtown
 Freeny, Eleanor P., Delmar, Del.
 Friedenwald, Aaron, Baltimore
 Gause, Clemencia A., Washington, D. C.
 Gentile, Charles A., Washington, D. C.
 Gray, Harry E., Riverdale
 Guertler, Albert L., Schuylkill Haven, Pa.
 Gutowski, Anthony D., Perth Amboy, N. J.
 Hale, Walker A., Washington, D. C.
 Halperin, David, Jersey City, N. J.
 Hammack, Olyure M., Marbury
 Hammer, Charles K., Hyattsville
 Harkness, Robert A., Mutual
 Hartman, Brasco, Baltimore
 Haskell, Frank B., Jr., Blue Plains, D. C.
 Hearn, Wilfred A., Chevy Chase
 Holland, John E., Princess Anne
 Holzapfel, Henry, III, Hagerstown
 Holzapfel, William M., Hagerstown
 Hopkins, William L., Salisbury
 Horine, Alvey H., Myersville
 Hudson, James B., Jr., Stockton W. Va.
 Hufford, Russell F., Welch, W. Va.
 Hughes, Thomas A., Delta, Pa.
 Hughes, Warren B., Washington, D. C.
 Humphreys, Arthur C., Jr., Snow Hill
 Hutchison, Jean C., Washington, D. C.
 Insley, Philip A., Cambridge
 Insley, Richard C., Salisbury
 Israelson, Reuben H., Baltimore
 Jacobson, Howard S., Newark, N. J.
 Johnston, Robert S., Schuylkill Haven, Pa.
 Kaminsky, Aaron L., Newark, N. J.
 Kane, Francis J., Bridgeport, Conn.
 Keenan, John L., Windber, Pa.
 Kessler, Bruce R., Washington, D. C.
 Kessler, Gordon A., Washington, D. C.
 Kimmel, Charles, Newark, N. J.
 Klimes, Louis F., Baltimore
 Klivitzky, Borris M., Baltimore
 Kreider, Harold L., Hyattsville
 Kyle, Wesley H., Waterbury
 Lafsky, Benjamin P., Washington, D. C.
 Lamar, William L., Takoma Park
 Lankford, Albert E., Princess Anne
 Lee, Parker A., Elizabeth, N. J.
 Leitch, John W., Huntingtown
 Lestz, Bertha S., Lancaster, Pa.
 Lewis, Alton C., Bridgeville, Del.
 Lewis, Graydon C., Oakland
 Lewis, John L., Bethesda
 Linton, Fred B., Takoma Park
 Loewinger, Robert, Bridgeport, Conn.
 MacGill, Fred H., Ridgewood, N. J.
 MacNemar, Oscar H., Millersville

Malgeri, John, Newark, N. J.
 Martin, Merwin E., Cumberland
 McKee, James W., Hancock
 McMahon, James E., Jr., Fall River, Mass.
 McMillan, Robert P., Garrett Park
 McNeil, Walter G., Jr., Washington, D. C.
 Merriken, Reese H., Federalsburg
 Miller, David C., Jr., Hagerstown
 Miller, Elizabeth, Baltimore
 Mitchell, Margaret P., Riverdale
 Nathanson, Rosalie, Baltimore
 Nielson, Niel E., Washington, D. C.
 Norton, Frances L., Hyattsville
 Norton, John H., Hagerstown
 Norwood, Alice G., Riverdale
 O'Brien, Daniel T., Morganza
 Oland, George C., Olney
 Ort, Harry C., Midland
 Pacheco, John M., New Bedford, Mass.
 Page, William T., Jr., Chevy Chase
 Parker, Ernest S., Landover
 Parsons, Paul L., Ormsby, Pa.
 Philips, Alice P., Washington, D. C.
 Pincus, Morris H., Baltimore
 Pink, Sol H., Passaic, N. J.
 Pirosh, Bert, Baltimore
 Plumley, Walter P., Jr., Takoma Park
 Pollock, Addison S., Washington, D. C.
 Porter, Francis J., Takoma Park
 Powell, Ella B., Berlin
 Reed, Helen, College Park
 Rice, George M., Washington, D. C.
 Roberts, Richard R., Hyattsville
 Roddey, Dorothy I., Camp Meade
 Rosen, Benjamin, Washington, D. C.
 Rosenfeld, David A., Washington, D. C.
 Rubenstein, Robert, Jersey City, N. J.
 Sager, Harold, Bayonne, N. J.
 Sanchez, Adolfo, Mayaguez, P. R.
 Sellman, Frances L., Beltsville
 Semesky, Gustav J., Washington, N. J.
 Shaw, James L., Cumberland

Shepard, Edward A., Hyattsville
 Simmons, John F., Cambridge
 Simmons, Robert C., Takoma Park, D. C.
 Smink, Douglas I., Baltimore
 Smith, Theodore T., Washington, D. C.
 Snyder, Gerald T., Windber, Pa.
 Speiden, Gertrude C., Riverdale
 Statman, Arthur J., Newark, N. J.
 Stephens, Custis G., Baltimore
 Sterling, Susanne, Crisfield
 Strickland, Edwin E., Bayhead, N. J.
 Strong, Thomas S., Laurel
 Sturgis, Virginia M., Hyattsville
 Sugar, Jeanette C., Washington, D. C.
 Tawney, Chester W., Havre de Grace
 Temple, Margaret E., Riverdale
 Tenney, Hazel J., Hagerstown
 Tew, George A., Washington, D. C.
 Tippet, E. Irene, Cheltenham
 Tupper, Richard W., Riverdale
 Venezky, Julian, Hyattsville
 Vought, Lorene P., Ridgewood, N. J.
 Walsh, James P., Jamaica, N. Y.
 Walter, James H., Point of Rocks
 Wandling, Robert A., Washington, N. J.
 Ward, Lewis H., Washington, D. C.
 Ward, J. Russell, Paris
 Warren, John F., College Park
 Wasmandorff, Otto F., Washington, D. C.
 Watson, Hazel E., Hancock
 Weitzel, William C., Washington, D. C.
 Wenger, Benjamin E., Washington, D. C.
 Wertheimer, Philip, Frederick
 Wick, Robert M., Washington, D. C.
 Winnemore, Augustine E., Chevy Chase
 Wiseman, Gordon C., Washington, D. C.
 Wondrack, John A., Washington, D. C.
 Woolman, Millie L., Jenkintown, Pa.
 Woronow, Albert, Washington, D. C.
 Wylie, William C., Washington, D. C.
 Zalewski, Irene J., Passaic, N. J.

UNCLASSIFIED

Clay, (Mrs.) Lucy E., College Park
 Engle, Margaret, College Park
 Graybill, Mary, College Park
 House, (Mrs.) L., College Park

McCall, (Mrs.) Harriet, College Park
 Milasky, Louis D., Washington, D. C.
 Trenk, (Mrs.) Julia, College Park
 Yauch, Gertrude B. (Mrs.), Riverdale

EXTENSION CHEMISTRY COURSE (BALTIMORE)

Arnold, William S., Baltimore
 Bryan, James H., Baltimore
 Carter, Roscoe H., Whiting, Iowa
 Ensinger, Wilbur C., Baltimore
 Forrest, Luke A., Leslie, Ga.
 Hammond, John A., Woodlawn
 Howes, Charles C., Baltimore
 Johnson, Mildred A., Baltimore

Kenny, William R., Baltimore
 Lentz, George A., Baltimore
 Matthews, Norris W., Baltimore
 Moffett, George A., Baltimore
 Rockevell, Paul O., Edgewood
 Scott, Marvin D., Baltimore
 Wiley, Cecil J., Baltimore
 Wisthoff, Reuben T., Baltimore

SCHOOL OF BUSINESS ADMINISTRATION

SENIOR CLASS

Armstrong, James E., Baltimore
 Bernstein, Robert, Baltimore
 Binkley, Walter C., State Line, Pa.
 Busch, Alfred D., Baltimore
 Cohen, Samuel J., Baltimore
 Corkran, Orville W., Rhodesdale
 Darsch, Granville M., Baltimore
 Donoway, Harry S., Baltimore
 Finifter, Joseph, Baltimore
 Friedman, Nathan I., Baltimore
 Goldberg, Norman, Cottage City
 Goucharsky, Isadore H., Baltimore
 Greager, Oswald A., Baltimore
 Haukin, David, Baltimore
 Lesnar, Maurice, Baltimore
 Levitt, Maurice M., Baltimore
 Lewis, Herman M., Baltimore
 Li, Richard T. F., Tientsin, China

Lockard, Ralph L., Patapsco
 Manfuso, John G., Baltimore
 Masters, Julian J., Baltimore
 McDonald, Thos. F., Baltimore
 McKewen, John L., Baltimore
 Medford, James R., Hurlock
 Moss, Leon, Baltimore
 Naegele, Jos. A., Baltimore
 Rubenstein, Sidney S., Baltimore
 Segall, Helen, Baltimore
 Small, Helen D., Baltimore
 Smith, Albert E., Baltimore
 Stange, Arbutus M., Baltimore
 Stutman, William, Baltimore
 Trageser, Chas. A., Baltimore
 Walton, Wm. R., Jr., Baltimore
 Weitzman, Theodore, Baltimore
 Yates, James R., Ellicott City

JUNIOR CLASS

Barbon, Wm. L., Princess Anne
 Cannon, Harold A., Crapo
 Chandler, Lovelyn W., Baltimore
 Craig, Harold E., Baltimore
 Crosby, Wilbur C., Baltimore
 Davis, Carroll F., Catonsville
 Fried, Samuel, Baltimore
 Gerbig, Harry, Baltimore
 Hatter, Chas. W., Baltimore
 Hooper, Evelyn, Elizabeth City, N. J.
 Jones, Curtis L., Baltimore
 Kraft, Mary L., Ellicott City
 Kunkel, Frank W., Baltimore
 Lavy, Abe, Baltimore
 Lyon, Elizabeth C., Hagerstown
 Magee, James J., Baltimore

Neuman, John H., Catonsville
 Parks, Lawrence E., Baltimore
 Philips, Ruth M., Baltimore
 Robinson, Reginald E., Toddville
 Rogers, George E., Baltimore
 Russell, Stuart B., Baltimore
 Schwartzman, David J., Baltimore
 Sieverts, G. A., Towson
 Wallach, George R., St. Michaels
 Warton, Leslie, Baltimore
 Weber, G. M., Baltimore
 Wheatley, Morris E., Ellicott City
 Winroth, G. E., Baltimore
 Yankellow, Harry A., Baltimore
 Yerman, Max, Baltimore

SOPHOMORE CLASS

Bailey, Raymond A., Baltimore
 Bopst, Harold S., Frederick
 Benson, Harold E., Baltimore
 Braverman, Herman S., Baltimore
 Bridge, Benjamin M., Baltimore
 Caplan, Morris J., Baltimore
 Cherrix, Lester R., Baltimore
 Claytor, R. M., Bedford, Va.
 Coakley, Arthur T., Catonsville
 Cohen, Edward, Baltimore
 Coppel, Abraham, Baltimore
 Creamer, Carroll M., Baltimore
 Dauber, John W., Catonsville
 Day, Seth S., Baltimore
 Dufty, Lewis E., Frostburg
 Edwards, Malcolm M., Baltimore

Eisenberg, Nathan, Baltimore
 Goldberg, Max L., Baltimore
 Gordon, Albert S., Baltimore
 Heid, August L., Baltimore
 Jacobs, Clarence P., Baltimore
 Kanner, Sidney, Baltimore
 Kersh, Samuel, Baltimore
 Kirstein, Herbert R., Baltimore
 Li, Henry, Tientsin, China.
 Maggio, Frank, Baltimore
 Melvin, Victor K., Chincoteague, Va.
 Millison, Harry G., Baltimore
 Murray, James F., Baltimore
 Osbon, John W., Catonsville
 Plant, Alvin J., Baltimore
 Radin, William W., Baltimore

Rosenblum, I. T., Baltimore
 Shapiro, Alexander, Baltimore
 Sigler, Wm. A., Baltimore
 Smith, Joseph, Baltimore
 Specht, Walter L., Buckeystown
 Stierhoff, George C., Baltimore
 Tongue, Alexander H., Solomon's

Vester, Milton H., Baltimore
 Wilkins, Julian C., Baltimore
 Williams, Harry, Baltimore
 Trivas, Max M., Baltimore
 Young, George R., Baltimore
 Young, John G., Baltimore

FRESHMAN CLASS

Aire, William, Dundalk
 Albert, William C., Baltimore
 Baggs, Walter M., Baltimore
 Berkwits, Herbert B., Newburgh, N. Y.
 Capone, Vincent R., Providence, R. I.
 Childs, Julian N., Baltimore
 Compher, Chas. E., Baltimore
 Genz, Leonard F., Elizabeth, N. J.
 Gyr, Marie E., Baltimore
 Goldman, Isadore A., Baltimore
 Harris, Milton, Baltimore
 Hillman, Isadore, Pasadena
 Horst, Henry H., Baltimore
 Hurwitz, David S., Dundalk
 Ives, William M., Jr., Mt. Washington
 Jacobson, Howard S., Newark, N. J.
 Kelly, Thomas M., Relay
 King, Mason H., Baltimore
 Kirkpatrick, Archie R., Baltimore
 Knapp, Ignatius M., Columbia, Pa.

Kreisel, Moe, Newburgh, N. Y.
 Lawlis, Tilden T., Dundalk
 Lenn, Isadore, E., Baltimore
 Luebbers, William E., Baltimore
 Mattingly, Bernard H., Baltimore
 Moore, Genevieve O., Baltimore
 Parker, Louis P., Pittsville
 Rogers, Mildred E., Baltimore
 Rotondo, Dominick J., Ellsworth, Pa.
 Rowe, William H., Baltimore
 Russell, George L., Baltimore
 Scheffenacker, Henry J., Baltimore
 Solomon, Charles, Baltimore
 Thomas, Bert S., Dundalk
 Tobman, Joseph, Baltimore
 Toof, Kenneth W., Saranac Lake, N. Y.
 Towles, Harry L., Merry Point, Va.
 Vaughan, Glynn T., Dundalk
 Waterfall, Richard L., Baltimore
 Zerofsky, Israel, Baltimore

EXTENSION COURSES

Armstrong, Edward J., Baltimore
 Baggs, Cora T., Baltimore
 Baggs, Emma E., Baltimore
 Bankert, Clara M., Baltimore
 Bauer, John C., Baltimore
 Baylus, Meyer M., Baltimore
 Becker, Rose A., Baltimore
 Bensel, Minna L., Baltimore
 Bernstein, Jos., Baltimore
 Bevans, James L., Baltimore
 Bien, Jerome I., Pikesville
 Birch, Marie V., Baltimore
 Bishop, Ronald J., Catonsville
 Blake, Joseph F., Baltimore
 Blankner, Earle M., Baltimore
 Blum, Estelle, Baltimore
 Bomstein, David, Baltimore
 Bortner, Rowland L., Baltimore
 Bowers, Martin H., Jr., Baltimore
 Brennan, Margaret, Baltimore
 Brothers, Paul A., Brooklyn, N. Y.
 Brude, Emma R., Baltimore
 Bruno, Nicholas G., Baltimore
 Cahill, Anna L., Baltimore
 Carle, Alfred C., Baltimore

Chemoweth, Anna B., Taneytown
 Childs, Edwin E., Baltimore
 Clayman, David S., Baltimore
 Cohen, Archie R., Baltimore
 Cohen, Irvin J., Baltimore
 Cohen, Max H., Baltimore
 Cohen, Samuel Washington, D. C.
 Coney, Edgar H., Baltimore
 Cooley, Wm. B., Baltimore
 Davis, Andrew J., Baltimore
 Dryden, Myrtle L., Baltimore
 Duitisher, H., Baltimore
 Duke, Milton, Baltimore
 Epstein, Samuel, Baltimore
 Euler, George S., Baltimore
 Evers, Wm. H., Baltimore
 Flescher, Julius, Baltimore
 Fonaroff, Sarah, Baltimore
 Fous, Elsie, Baltimore
 Ford, Olive W., Baltimore
 Gardill, Anna E., Baltimore
 Gesheker, Albert, Baltimore
 Gessford, Esther E., Towson
 Goldberg, Edward, Baltimore
 Goldberg, Mary B., Baltimore

Goldman, Ellis, Baltimore
 Goodman, Julius H., Baltimore
 Gordon, Dena E., Baltimore
 Gorsuch, Joshua L., Baltimore
 Gorsuch, Thomas T., Baltimore
 Greenberg, Leon, Baltimore
 Grimes, Charles E., Baltimore
 Grossman, Dinah, Baltimore
 Guildler, John M., Baltimore
 Hass, S. Gertrude, Perryville
 Harley, A. G., Baltimore
 Haskell, Crawford R., Baltimore
 Haskell, Mary S., Baltimore
 Heise, Fred, Baltimore
 Hessenaver, James D., Baltimore
 Heyman, Manuel, Baltimore
 Hoot, Alma R., Baltimore
 Hoot, Dorothy A., Baltimore
 Huber, Wm. James, Baltimore
 Hughes, Anthony J., Baltimore
 Iseman, Samuel B., Baltimore
 Jackson, John H., Baltimore
 Jacobs, Jerome, Baltimore
 Jacobson, Samuel M., Baltimore
 Johnson, Andrew L., Mt. Washington
 Jones, Harry A., Baltimore
 Kadis, Louis, Baltimore
 Kapp, H. Woodman, Ellerslie, Md.
 James, Kearney, Baltimore
 Keener, Helen B., Baltimore
 King, John B., Baltimore
 Kirby, Gerard W., Baltimore
 Kobre, Ellis, Baltimore
 Klein, Harry, Baltimore
 Kobaskie, Ignatius A., Baltimore
 Kraft, M. Loretta, Baltimore
 Larkins, Andrew J., Baltimore
 Laur, Frank J., Baltimore
 Lawton, Charles E., Dundalk
 Levy, Joel M., Baltimore
 Linz, Carolyn, Baltimore
 Long, Elsa R., Baltimore
 Lusby, Bernard R., Baltimore
 MacEachern, John T., Baltimore
 McIntire, Theodore B., Baltimore
 MacPherson, Helen M., Baltimore
 McCauley, Everett S., Baltimore
 McQuillen, Thomas W., Baltimore
 Mannion, John P., Baltimore
 Mannion, Joseph F., Baltimore
 Marchont, Gregory W., Mathews, Va.
 Marx, Ernest B., Baltimore
 Maserowitz, Louis, Baltimore
 Miller, Bernard E., Baltimore
 Millett, Joseph, Baltimore
 Mittler, Frances B., Baltimore
 Moore, James E., Baltimore
 Moore, James J., Baltimore
 Moore, Wm. E., Baltimore

Muehlhause, Wm., Baltimore
 Murdoch, George H., Mt. Airy
 Sylvan, Nathan, Baltimore
 Neukam, George M., Baltimore
 Nicodemus, Grace H., Buckeystown
 Owens, Charles B., Troy, N. Y.
 Penn, James A., Baltimore
 Phelps, Bertram C., Corbett
 Pettinger, Vernon T., Baltimore
 Platzer, Charles B., Baltimore
 Poloway, William, Baltimore
 Pryce, Pauline E., Baltimore
 Ramsen, Halsey, Baltimore
 Reddy, Richard J., Baltimore
 Rennie, Malcomb E., Baltimore
 Rohd, Louis, Baltimore
 Rosenthal, Fred L., Baltimore
 Rosner, Blanche, Baltimore
 Sandlas, Wm. H., Baltimore
 Sapp, Earle W., Baltimore
 Scherr, Hyman L., Baltimore
 Schilling, Arthur Chas., Baltimore
 Schlennes, George, Jr., Baltimore
 Schoale, Helen M., Baltimore
 Schmahl, E. A., Baltimore
 Schmidt, Leda, Baltimore
 Schmidt, Oswald, Baltimore
 Schnabel, Wm. T., Baltimore
 Schneider, Faives, Baltimore
 Schofer, Maurice, Baltimore
 Schroeter, Bertha, Baltimore
 Schuppner, William G., Baltimore
 Schwartz, Helen M., Baltimore
 Schwartz, Hyman, Baltimore
 Schwartz, Joseph, Baltimore
 Sears, Irene U., Nauzotuck, Conn.
 Sears, Joseph E., Essex
 Shapiro, Mary L., Baltimore
 Siegel, Frank, Baltimore
 Silver, Sarah, Baltimore
 Skeen, Arnold T., Baltimore
 Sklar, Isidore, Baltimore
 Skup, David A., Baltimore
 Smith, Elmer H., Baltimore
 Smith, Margaret V., Baltimore
 Smith, Winthrop W., Baltimore
 Sollod, Allen, Baltimore
 Sorg, Wilbert A., Baltimore
 Stabler, Margaret H., Baltimore
 Stansbury, John S., Baltimore
 Stewart, George K., Baltimore
 Strouse, Isaac, Baltimore
 Sturm, Clarence W., Baltimore
 Swiskowski, Frank L., Baltimore
 Taylor, Edward D., Jr., Baltimore
 Taylor, Lettie S., Baltimore
 Thompson, Bernard H., Baltimore
 Thompson, Harry F., Baltimore
 Thurston, James W., West Point, Va.

Treadwell, Wm. B., Baltimore
 Vansyckle, Gardner, Baltimore
 Van Williams, Vernon, Baltimore
 Vardy, Richard L., Baltimore
 Wachs, Aaron, Baltimore
 Wagenen, Stella K., Baltimore
 Wallace, Andrew C., Baltimore
 Warrington, James W., Jr., Baltimore
 Weigman, Bernard J., Overlea,
 Weisblatt, Rose, Baltimore
 Weisenger, Joseph G., Baltimore

Wells, Harry, Overlea
 Whitman, Edward B., Garrison
 Williams, Grace M., Baltimore
 Williams, Nat, Baltimore
 Wilson, Gilbert F., Baltimore
 Wilson, Norman R., Baltimore
 Wolman, Jessie, Baltimore
 Wright, Millard F., Bel Air
 Yourex, Jean, Baltimore
 Zerhusen, Henry, Jr., Baltimore

SCHOOL OF DENTISTRY

SENIOR CLASS

Akers, James L., Brooklyn, Md.
 Anderson, Milton F., Baltimore
 Babowicy, Boleslow S., Watervliet, N. Y.
 Badger, Walter L., Baltimore
 Barrette, Roland A., Fall River, Mass.
 Barth, Saul, Baltimore
 Bates, John A., New York City
 Begin, Arthur A., Waterville, Maine
 Benazzi, Bomeda B., Danville, Va.
 Benson, Covert O., Cameron, W. Va.
 Binns, Edwin V., Baltimore
 Biosca, Henry, Independencia, Cuba
 Bishop, Blaine C., Baltimore
 Blair, Murray R., New Devon, N. B., Canada
 Blair, Robert E., Baltimore
 Blanchard, Norman K., Portland, Maine
 Bonchard, Maxime W., Fort Kent, Maine
 Bourgeois, Ernest M., Moncton, N. B., Canada.
 Bridges, Roy H., Dunn, N. C.
 Brigadier, Leonard R., Bayonne, N. J.
 Brown, Charles S., Baltimore
 Brown, Wm. D., Barnegat, N. J.
 Buckley, Edwin J., Shamokin, Pa.
 Budz, Frank J., Clifton, N. J.
 Bumgarner, Albert S., Baltimore
 Byron, Wesley C., Baltimore
 Caine, Louis P., Newark, N. J.
 Carroll, Vincent A., Corning, N. Y.
 Catasirs, Emilio, Santiago, Cuba
 Cavallaro, Augustine L., New Haven, Conn.
 Chu Cheong, Matthew A., Trinidad, B. W. I.
 Crickenberger, Harry H., White Sulphur Springs, W. Va.
 Davis, Wm. R., East Orange, N. J.
 Degling, Harry H., East Orange, N. J.
 Deslandes, Leo E., Providence, R. I.
 Doherty, Frank J., Worcester, Mass.
 Dolan, Joseph K., Pawtucket, R. I.
 Dorsey, Caleb, Jr., Baltimore
 Dunphy, Albert F., Providence, R. I.
 Elias, Alan E., New York City
 Elliot, Walter H. T., South Orange, N. J.

Fiess, Paul L., New Martinsville, W. Va.
 Foley, John J., Jr., Grafton, W. Va.
 Font, Juan, San Juan, Porto Rico
 Fusco, Joseph, New Haven, Conn.
 Gannon, Edward P., Clinton, Mass.
 Gregory, A. William, Webster Springs, W. Va.
 Hagerthy, Cornelius C., Sedgevick, Maine
 Hardy, George E., Jr., Baltimore
 Holliday, Robert H., Clinton, N. C.
 Ingram, William A., Cheraw, S. C.
 Jacobs, Benjamin J., Elizabeth, N. J.
 Joule, James, Arlington, N. J.
 Kaplon, Morton, Summit, N. J.
 Keister, Walter L., Upper Trent, W. Va.
 Kelly, Charles R., Craddockville, Va.
 Kilcoyne, John E., Clinton, Mass.
 King, Jos. D., Worcester, Mass.
 Klock, James H., Baltimore
 Kozubski, Michael L., Baltimore
 Lautenberger, Henry L., Baltimore
 Lazzell, Charles B., Baltimore
 LeFevre, Edw. W., Baltimore
 Leger, Edmond J., Bathurst, N. B., Canada
 Levin, Harry H., Baltimore
 Lipman, Samuel, Bayonne, N. J.
 Little, Main E., Darlington
 Loar, Emerson E., Echart Mines
 Lonergan, Robert C., New London, Conn.
 Macdonald, Niel, Washington, D. C.
 Magee, Kenneth A., Nutley, N. J.
 Marx, Joseph, Passaic, N. J.
 McAlexander, Archie, Orange, Va.
 McGann, James F., Providence, R. I.
 McGonigle, Wm. I., Newark, N. J.
 McGrail, Frank R., New Haven, Conn.
 McMullen, Charles A., Steubenville, Ohio
 Miller, Carey O., New Brunswick, Canada
 Minkin, Hyman, Washington, D. C.
 Mockridge, Arthur R., Dover, N. J.
 Monk, David, Transvaal, South Africa
 Morris, Thomas E., Hasbranck Heights, N. J.
 Morrison, Wm. H., Burlington, Vt.
 Nealon, John P., Scranton, Pa.

Nelson, Jos. T., Jr., Baltimore
 Newell, Ward M., Stephens City, Va.
 Noon, Thola E., Millersville
 Nuger, Nathaniel, Baltimore
 Oggeson, Walter L., Baltimore
 Phreaner, Richard M., Greencastle, Pa.
 Pinsky, Benjamin, Baltimore
 Plaster, Herbert S., Winston-Salem, N. C.
 Powell, Wm. H., Elkins, W. Va.
 Pressman, Samuel, Dorchester, Mass.
 Pyott, James E., Baltimore
 Reynolds, Leo, North Attlesboro, Mass.
 Richmond, Clarence W., Coatesville, Pa.
 Ruane, Wm. A., Scranton, Pa.
 Ryan, James S., New Bedford, Mass.
 Sandy, Benjamin P., Baltimore
 Scherr, Henry Y., Baltimore
 Scholtes, Chas. P., Minersville, Pa.
 Schwartz, Alfred J., Westwood, N. J.
 Seery, Paul R., Wilmington, Del.
 Shapiro, Louis, Newark, N. J.
 Sharp, Nicholas, New Haven, Conn.
 Shutters, Abram A., Timberville, Va.
 Siwa, Roman C. A., Mt. Camel, Pa.
 Smith, Wallace P., Cambridge

Spellman, James P., Scranton, Pa.
 Springer, Chas. B., New Brunswick, Ga.
 Stratton, Warren Wm., Hartford, Conn.
 Tidgewell, Frederick H., Westhaven, Conn.
 Toulouse, Fred E., Jr., Waterville, Me.
 Towers, John M., Irvington, N. J.
 Townes, George E., Martinsville, Va.
 Trail, Wm. E., Baltimore
 Trent, Ralph W., Leaksville, N. C.
 Trinkle, George H., Shenandoah, Pa.
 Trone, James L., Carlisle, Pa.
 Veasey, Eugene E., Pocomoke
 Walker, Robert D., Harrisburg, Pa.
 Walsh, Wm. P., Wilmington, Del.
 Walter, Henry M., Baltimore
 Warshawsky, Samuel H., Asbury Park, N. J.
 Watts, Allan L., Carlisle, Pa.
 Webb, Elmore M., Baltimore
 Weeks, Wm. P., Charlotte, N. C.
 Whitcomb, Robert W., New London, Conn.
 Wierciak, Paul A., Ludlow, Mass.
 Winchester, Phil W., Summerfield, N. C.
 Zelinski, Edw. W., Baltimore
 Zwick, Andrew, Nangatuck, Conn.

JUNIOR CLASS

Abrams, Samuel, Jersey City, N. J.
 Andre, Homer C., Charleston, W. Va.
 Alvarcy, Rafael R., Guamsbacoa, Cuba
 Apirian, John, Waterbury, Conn.
 Baish, Eugene L., Baltimore
 Bock, Carl F., Baltimore
 Boggs, Richard H., Franklin, W. Va.
 Boggs, Robert A. J., Marietta, Ohio
 Burns, Howard R., Bergenfield, N. J.
 Bush, Harry L., Baltimore
 Byer, Samuel H., Trenton, N. J.
 Cahill, Thomas, Smithton, W. Va.
 Casciano, Dominick N., Jersey City, N. J.
 Coberth, Morris E., Baltimore
 Condry, James A., Clarksburg, W. Va.
 Dailey, Wm. P., Steelton, Pa.
 Demarest, John H., Verona, N. J.
 Donatelli, Francis P., Roseto, Pa.
 Dorsey, Brice M., Baltimore
 Doty, Almon P., Plainfield, N. J.
 Douglas, Wm. W., Bayonne, N. J.
 Duryes, Walter E., Hawthorne, N. J.
 Eagle, James W., Keyser, W. Va.
 Ellor, Arthur B., Baltimore
 Epstein, Raymond, Newark, N. J.
 Erwin, Dick H., Charlotte, N. C.
 Fenn, George N., Waterbury, Conn.
 Fernandez, Marcolina, San Juan, P. R.
 Fitch, Avery M., Noank, Conn.
 Fitzgerald, John, Baltimore
 Fox, Lewis, Norwich, Conn.

Frank, Samuel M., New Haven, Conn.
 Gale, Ralph P., New Freedom, Pa.
 Garverich, Chas. A., Harrisburg, Pa.
 Gould, Chas. K., Spartanburg, S. C.
 Graffam, Sidney R., Unity, Me.
 Griffin, Harry A., Susquehanna, Pa.
 Grotzky, Theo., Baltimore
 Hanna, Robert C., Bethel, Conn.
 Haynes, Ellery C., Middlebury, Vt.
 Herring, Lonnie Orville, Clinton, N. C.
 Hess, Frederick Jos., Washington, D. C.
 Hoffman, Wm. P., Hagerstown
 Holdstock, James, Jr., Troy, N. Y.
 Huminski, Chester J., Baltimore
 Hundley, Alwyn, Jr., Baltimore
 Hurst, Frank, Baltimore
 Hurst, Kenneth E., Wilsonburg, W. Va.
 Huth, Ralph L., Fallanslee, W. Va.
 Hyson, John M., Hampstead
 Jameson, Joseph A., Hughesville
 Jennette, Alexander T., Washington, D. C.
 Karas, Henry J., Chicopee, Mass.
 Keefe, James A., Bridgeport, Conn.
 Kelly, Simon A., Bethlehem, Pa.
 Kinch, Frederick J. E., Somerville, Mass.
 King, Robert J., Williamsport, Pa.
 Kirk, Walter W., Darlington
 Koppel, Isaac H., Baltimore
 Kramer, Abraham, Elizabeth, N. J.
 Lammers, Walter J., Baltimore
 Lauer, Louis, Newark, N. J.

Mackwiz, Raymond G., Baltimore
 Marrone, Jack, Frederick
 McAnnally, Chas. B., Madison, N. C.
 McClain, Preston L., Bar Harbor, Me.
 McKay, Allen P., Raspeburg
 McLay, Frank P., N. Andover, Mass.
 Mielcarek, Leon M., Chester, Pa.
 Moore, Oliver S., Globe, N. C.
 Neel, Jerrold W., Baltimore
 Newberg, Conrad, New Haven, Conn.
 O'Boyle, John M., Scranton, Pa.
 O'Lone, Walter J., Washington, D. C.
 Oneacre, C. A., New Martinsville, W. Va.
 Orrison, Richard C., Lovettsville, Va.
 Paszek, Stephen A., Newark, N. J.
 Pharr, Jos., Elizabeth, N. J.
 Pomroy, Granville, Presque Isle, Me.
 Prescher, Adolph R., Plantsville, Conn.
 Prouty, Earle T., Swanton, Vt.
 Quillen, Joseph, Rehoboth, Del.
 Quirk, Pierce A., Jersey City, N. J.
 Rauch, Albin A., Baltimore

Rider, Elwood B., Monroe, N. Y.
 Rohrbaugh, Walter E., Baltimore
 Rorhbaugh, John P., Camden, W. Va.
 Rose, Jacob, N. Philadelphia, Pa.
 Ruderman, Chas., Newark, N. J.
 Russell, Carl P., Eastport
 Schilling, Louis R., Carlstadt, N. J.
 Schwartz, Jacob, Newark, N. J.
 Shanklin, Burke J., Union, W. Va.
 Shoaf, Richard Reynolds, Lexington, N. C.
 Stewart, Wm. H., Bayonne, N. J.
 Tuttle, Samuel, Revere, Mass.
 Weber, Ernest J., Clifton, N. J.
 White, Ross B., Baltimore
 Whitman, Clifford L., Lyndhurst, N. J.
 Wierman, John A., Dillsburg, Pa.
 Wilde, Samuel H., East Orange, N. J.
 Wintrup, J. Paul, Wilmington, Del.
 Woolfson, Albert, Baltimore
 Yolken, Henry D., Baltimore
 Yuckman, Ben P., Carteret, N. J.
 Zacks, Aaron M., Norfolk, Va.

SOPHOMORE CLASS

Arkus, Philip, Bayonne, N. J.
 Aronson, Irving J., Hillside, N. J.
 Basehoar, Wm. C., Carlisle, Pa.
 Bishop, Arthur B., West Haven, Conn.
 Blasini, Domingo A., Baltimore
 Blumberg, Sidney H., Newark, N. J.
 Bobinski, Harry, Stamford, Conn.
 Bockevak, Abraham E., Elizabeth, N. J.
 Bowers, Norman R., Grafton, W. Va.
 Boyer, Lloyd L., Harrisburg, Pa.
 Branch, Byron R., Bathurst, N. B., Canada
 Bristol, Howard G., Plantsville, Conn.
 Britten, Harold C., Cortland, N. Y.
 Brown, Benjamin, Atlantic City, N. J.
 Bucher, Leon, Baltimore
 Cayton, Leon, Washington, D. C.
 Chappellear, Theodore A., Dennison, Ohio
 Colvin, Melvin H., Washington, D. C.
 Conway, Thos. C., Holyoke, Mass.
 Convey, Elmer F., Mountain Lakes, N. J.
 Constanzo, Emil L., Union, N. J.
 Craig, Gilbert T., Wallingford, Conn.
 Crider, Frank N., Hagerstown
 Czajke, Edward, Danbury, Conn.
 Dana, George H., Bombay, N. Y.
 Deems, Paul A., Baltimore
 DeFlora, Romeo J., West Englewood, N. J.
 DeVan, John K., Belleville, N. J.
 Donatelli, Martin L., Rosete, Pa.
 Eggnatz, Myer, Baltimore
 Eigenrauch, Justus H., Jersey City, N. J.
 Falk, William J., Erie, Pa.
 Faucher, Morris C., Winsted, Conn.
 Faucette, John W., Jr., Asheville, N. C.

Fenichel, Joseph, Newark, N. J.
 Fidel, Oscar, Newark, N. J.
 Gallen, Lester, New Brunswick, N. J.
 Germain, Ralph P., Plainfield, N. J.
 Gold, Sidney I., Trenton, N. J.
 Goldberg, Irvin B., Baltimore
 Goldberg, William M., Bayonne, N. J.
 Gordon, Daniel J., Harrison, N. J.
 Guerra, Francisca, Playa, P. R.
 Hagerthy, Lawrence, Sedwick, Me.
 Hagerty, Lewis Merritt, Sussex, N. J.
 Hofferaman, Alfred M., Spring Valley, N. Y.
 Huggins, Clement E., San Fernando, B. W. I.
 Jacob, Abraham, Newark, N. J.
 Kaplan, Irving, Bayonne, N. J.
 Kelsey, Julius J., Reading, Pa.
 Kinberg, Bernard, Newark, N. J.
 Knight, Benjamin M., Jr., Winchester, Va.
 Kohler, Ferdinand C., Carlstadt, N. J.
 Lanten, William B., Baltimore
 Lavine, Ben, Trenton, N. J.
 Lowenstein, Philip C., Elizabeth, N. J.
 Machado, John S., New Bedford, Mass.
 Machokas, Pius G., Baltimore
 Marazas, Edw. W., Minersville, Pa.
 Markley, Frederick E., Staunton, Va.
 Matney, Andrew C., Grundy, Va.
 McCluer, Wm. A., Fairfield, Va.
 Messick, Carroll E., Benedict, Vt.
 Michniewicz, Jos. A., Bellows Falls, Vt.
 Miller, Clarence P., Tunnelton, W. Va.
 Moore, Stanley G., Hagerstown
 Mott, Mayo B., Baltimore
 Moxley, Richard T., Wylam, Ala.

Munkittrick, Alfred G., Baltimore
 Ohlund, Paul Q., New Haven, Conn.
 Orange, Jerome, Newark, N. J.
 Ostraw, A. Harry, Washington, D. C.
 Patterson, Lloyd W., Cumberland
 Pennino, Jos. A., Baltimore
 Preis, Kyrle W., Baltimore
 Rizzolo, Jeffrey, Newark, N. J.
 Rose, Benjamin A., Meadow Bridge, W. Va.
 Rosin, Jack R., Erie, Pa.
 Ruiz, Emilio M., Arecibo, P. R.
 Ryan, Edwin M., Bethel, Conn.
 Sachner, Benjamin, Norwich, Conn.
 Schaedel, Carl H., Newark, N. J.
 Schusterson, Edw. H., New York City
 Seemann, Frank C., Perth Amboy, N. J.
 Seijo, Ana C., Baltimore
 Selens, Walter L., Waterbury, Conn.
 Shapiro, Fred, Carteret, N. J.
 Silverman, David B., Norfolk, Va.

Siwa, Walter J., Mt. Camel, Pa.
 Sofferman, Irving, Bayonne, N. J.
 Stagg, Horace H., Westwood, N. J.
 Stamp, Frank E., Reading Center, N. Y.
 Stickle, Norman E., Newark, N. J.
 Stock, Richard J., Gettysburg, Pa.
 Taylor, Charles E., Verona, N. J.
 Teter, Harry, Thomas, W. Va.
 Tirpak, Eugene J., Ridgewood, N. J.
 Toye, Alfred E., Dover, N. J.
 Uihlein, George A., New Haven, Conn.
 Vawter, Ray A., Savage
 Von Deilen, Arthur W., Morristown, N. J.
 Walker, John F., Saranac Lake, N. Y.
 Watkins, Sheridan N., N. Braddock, Pa.
 White, Charles C., Winfall, N. C.
 Worden, Harold D., New Matamoras, Ohio
 Wright, Stephen H., Baltimore
 Zerdesky, Clement A., Silver Creek, Pa.

FRESHMAN CLASS

Abrams, Allen, Harrison, N. J.
 Allanach, Francis Gordon, New London, Conn.
 Aronson, Murray, Bayonne, N. J.
 Belford, Julius, Bayonne, N. J.
 Belue, Jafus A., Jr., Spartanburg, S. C.
 Bergen, Francis Jos., Jr., Waterbury, Conn.
 Bernstein, Isadore I., Bronx, N. Y.
 Bloom, Samuel, Annapolis
 Bowers, Mark E., Moores Store, Va.
 Brand, Ralph A., Morgantown, W. Va.
 Brauer, Benjamin B., Jersey City, N. J.
 Bruskin, Lawrence T., New Brunswick, N. J.
 Calenda, Frederick L., Pawling, N. Y.
 Capone, Jos. Albert, Providence, R. I.
 Carrasquillo, Francisco C., Jr., Bayamon, P. R.
 Clendenin, George B., Wilmington, N. C.
 Coleman, John W., Jersey City, N. J.
 Cranwell, Aloysius P., West Hoboken, N. J.
 Davis, Hugh W., Cameron, W. Va.
 DeLahongrais, Ismael, Ponce, P. R.
 Dobbs, Edw. Clarence, Springfield, Mass.
 Drake, A. Dudley, Newark, N. J.
 Eadie, Hugh Wm., Bloomfield, N. J.
 Ehrlich, Herman, Harrison, N. J.
 Feher, John F., Baltimore
 Flynn, John B., North Adams, Mass.
 Fogelman, David, Paterson, N. J.
 Frankel, Nathaniel Leon, New Brunswick, N. J.
 Gibson, Mitchell E., Baltimore
 Gill, Russell Stephen, Pikesville
 Glanville, Paul L., Morristown, N. J.
 Gordon, Alan Leslie, Baltimore
 Grace, Raymond D., South Amboy, N. J.
 Greenberg, Herbert H., Annapolis
 Grossman, Leon C., Union, N. J.

Harber, Morris I., Asbury Park, N. J.
 Harold, Frederick S., New Haven, Conn.
 Harris, Marion M., Jr., Elizabeth City, N. C.
 Heeseman, Gary, Charlotte, N. C.
 Hill, Harry H., Baltimore
 Holewinski, Frank Chas., Baltimore
 Johnson, Howard Melvin, Morgantown, W. Va.
 Jourdan, Harvey P., Darlington
 Joyce, Leo A., Providence, R. I.
 Kaplan, Ben., Bayonne, N. J.
 Kaplan, Irving, Newark, N. J.
 Kenny, Mary A. Rose, Baltimore
 Lane, Hubert W., Hillside, N. J.
 Lawlor, James P., Waterbury, Conn.
 Lazzell, John W., Baltimore
 Levy, Montague, Newburgh, N. Y.
 Lewis, James F., Parksley, Va.
 Lieb, Harry, Newark, N. J.
 Lurie, Julius J., Newark, N. J.
 Macaluso, Joseph L., Annapolis
 Mariani, Thomas E., Bayonne, N. J.
 Martindale, John A., Ansted, W. Va.
 Matthews, Robert C., Clinton, N. C.
 Matzkin, Max, Waterbury, Conn.
 McCurdy, Clarence R., Cameron, W. Va.
 McCleod, Thos. Donald, Upper Montclair, N. J.
 McNemar, James B., Millersville
 Mermelstien, Maurice, Carbondale, Pa.
 Meyer, Cord J., Savannah, Ga.
 Meyer, W. M. L., Baltimore
 Minahan, Walter R., Sparrows Point
 Moore, Floyd H., Marydel
 Mulrooney, Patrick E., Wilmington, Del.
 Murray, Chas. F., Bristol, Mass.
 O'Connor, Frank J., Jr., Norfolk, Va.

Oertel, Carl H., Baltimore
 O'Malley, Alfred E., Clinton, Mass.
 Page, Ludolphus G., Yanceyville, N. C.
 Peters, Albertus B., Collinswood, N. J.
 Petow, Ernest J., Hyannis, Mass.
 Phillips, Francis W., Providence, R. I.
 Quillen, Frederick C., Rehoboth, Del.
 Quinn, Lawrence S., New Bedford, Mass.
 Rafols, Oscar, Quebradilla, P. R.
 Revilla, Manuel E., Havana, Cuba
 Reynolds, Stanley D., Baltimore
 Richter, Theodore A., Milltown, N. J.
 Roberts, Edwin J., Westernport
 Robin, Milton, Bronx, N. Y.
 Robles, Cecilia, Vieques, P. R.
 Rosen, Sol, Baltimore
 Sandberg, Max, Baltimore
 Savitz, Maurice J., Roxbury, Mass.
 Scheidt, Charles H., Baltimore
 Schwarz, Wm. C., Bayonne, N. J.
 Seeley, Elwood, Presque Isle, Me.
 Shaffer, Samuel W., Greensboro, N. C.
 Sharp, John R., Cumberland

FRESHMAN FIVE-YEAR CLASS

Braunstein, Benjamin, Passaic, N. J.
 Buckley, Willis F., Marietta, Ohio
 Buday, Albert, Bridgeport, Conn.
 Chanand, Norman P., North Bergen, N. J.
 Crawford, Raymond G., Baltimore
 Fetter, Luther Werner, Schaefferstown, Pa.
 Harlacher, Anthony John, Progress, Pa.
 Hulit, Elon Addison, Ocean Grove, N. J.
 Lapow, Abraham, Newark, N. J.
 Leggett, Laurence L., Uhrichsville, Ohio
 McAloose, Carl, McAdoo, Pa.
 McCormick, James Henry, Providence, R. I.
 Messor, Michael B., Providence, R. I.
 Miller, Julius, Bayonne, N. J.

Sherlock, John V., Plainfield, N. J.
 Shipner, Harry, Newark, N. J.
 Silber, Samuel E., Newark, N. J.
 Simmons, Arlie Chas., Dry Run, W. Va.
 Slavik, Clarence R., Nutley, N. J.
 Smith, James C., Madison, Va.
 Spitzer, Lynden, Mount Jackson, Va.
 Stang, John Thos., Jersey City, N. J.
 Stephenson, Henry L., Gareysburg, N. C.
 Tarr, Philip A., New York City
 Thomas, Nelson John, Baltimore
 Tierney, Henry E., Clinton, Mass.
 Torruella, Guillermo A., Ponce, P. R.
 Trundle, Wm. Edw., Aqua, Va.
 Tuloczek, Rudolph, Baltimore
 Watson, Willard G., Fitchburg, Mass.
 Weiner, Simon Louis, Elizabeth, N. J.
 Weisler, Herman L., Uncasville, Conn.
 Weitz, Edw., Brooklyn, N. Y.
 Williams, Norton Thos., New Haven, Conn.
 Willin, John M., Jr., Oak Grove, Del.
 Wylie, Claude, Glace, W. Va.

Noll, John B., New Haven, Conn.
 Pierce, Carl R., Norfolk, Va.
 Schein, Irving, Newark, N. J.
 Schwartz, Philip, Newark, N. J.
 Sheinblatt, Joseph, Elizabeth, N. J.
 Slatery, George B., Montclair, N. J.
 Smith, James W., Lincolnton, N. C.
 Smyser, Edw., York, Pa.
 Spitzen, Percival, Elizabeth, N. J.
 Stoklosa, Andrew Albert, Carbondale, Pa.
 Sugg, Merritt N., Southern Pines, N. C.
 Wolf, John Washington, Carlisle, Pa.
 Zamecki, Theodore Martin, Baltimore

COLLEGE OF EDUCATION

SENIOR CLASS

Amos, Laura I., Forest Hill
 Baker, Katherine L., Edgemont
 Barron, Edward M., Hyattsville
 Bear, Elizabeth H., Riverdale
 *Bennett, Benjamin H., Kenilworth, D. C.
 Dorsey, Elise, Ellicott City
 Ennis, John, Pocomoke
 Huyette, Earl H., Hagerstown
 Klein, Truman S., Union Bridge
 Lehman, Lawrence L., Rockville
 Longridge, Joseph C., Barton
 Morgan, Phyllis, Lonaconing
 Murray, Dorothy, Washington, D. C.
 Nicol, Victorine, Washington, D. C.
 Nihiser, Edwin E., Hagerstown

Pancoast, Priscilla B., Mt. Rainier
 Porton, Harry P., Washington, D. C.
 Pyles, Joseph T., Frederick
 Ray, John J., Washington, D. C.
 Richardson, Louise, Washington, D. C.
 Schmidt, George H., Baltimore
 Seibert, J. Clarke, Clearspring
 Seibert, Joseph H., Clearspring
 Staley, Ira M., Knoxville
 Troxell, Walter H., Washington, D. C.
 Wallace, Sarah O., Landover
 Whiteford, W. Hamilton, Baltimore
 Wolfe, Margaret B., Forest Glen
 Young, Dorothy O., Bethesda

JUNIOR CLASS

Anderson, Mary B., Steubenville, Ohio
 Beachley, Amos B., Middletown
 Beatty, William P., College Park
 Boyd, Arthur C., Washington, D. C.
 Browne, Mary M., Chestertown
 Burgee, Miel D., Monrovia
 Collins, M. Charlotte, Bishopville
 Corkran, Daniel E., Rhodesdale
 Custer, Helen, Friendsville
 Deibert, Elmore R., Havre de Grace
 Fettus, George H., Jr., Folcraft, Pa.
 Graham, William, North East
 Harbaugh, Louise, Brookland, D. C.
 Harper, Donald B., Royal Oak
 Howard, William L., Federalsburg

Hill, Robert W., Baltimore
 Jenkins, Stanley, College Park
 Johnson, Mary K., Anacostia, D. C.
 Miller, Gladys M., Westernport
 Mills, James B., Delmar
 Muzzy, Alexander A., Homestead, Pa.
 Petrie, Kenneth, Berwyn
 Ryon, Helen G., Waldorf
 Ryon, Naomi C., Waldorf
 Stevens, M. B., Chevy Chase
 Warner, Grace M., Forest Hill
 Waters, John W., Washington, D. C.
 Whiteford, Roger S., Baltimore
 Woodward, Alberta A., Washington, D. C.
 Wright, Phillip A., Federalsburg

SOPHOMORE CLASS

Beall, Elizabeth M., Chevy Chase
 Bishoff, Roselle, Friendsville
 Dale, James P., Whalesville
 Doerr, Paul, Washington, D. C.
 Earnshaw, Virginia H., Riverdale
 Freeny, Frances F., Delmar, Del.
 Houser, Phyllis M., Brentwood
 Howard, Louise M., Dayton
 Kelly, Josephine M., Washington, D. C.
 Kirk, Jane L., Colora
 Kuhnle, Mary E., Westernport
 Leatherman, John D., Thurmont
 Llewellyn, Clarence H., Barton

Long, Marvin C., Williamsport
 Matthews, Henry C., Worton
 McCoy, Philemon I., Beltsville
 McCurry, Joel C., Kenilworth, D. C.
 McPartland, John F., Lonaconing
 Mitchell, Marion N., Riverdale
 Morris, Frances F., Sykesville
 Nicholas, Ellwood R., Philadelphia, Pa.
 Price, Virginia S., Washington, D. C.
 Pugh, Charles F., Chevy Chase
 Truitt, Emily, Snow Hill
 Wolf, Margaret M., Hyattsville

FRESHMAN CLASS

Andrews, William C., Barton
 Beall, Dorothy I., Chevy Chase
 Bennett, William O., Greensboro
 Brumfield, Christine M., Washington, D. C.
 Clow, James H., Jr., Barclay
 Conover, Merle E., Taneytown
 Corkran, Philip, Rhodesdale
 Finch, L. Dorothy, Washington, D. C.
 Fowler, Lucille, Owings
 Herzog, Emily C., Washington, D. C.
 Hislop, Mildred A., Hyattsville
 Kreider, Hazel B., Hyattsville
 Little, Harriet C., Mt. Rainier
 Maisch, Frances J., Hagerstown
 Matthews, Anne R., Worton
 McWilliams, James O., Rhodesdale
 Myers, Warren G., Thurmont

Parsons, John B., Washington, D. C.
 Peters, B. Anita, Washington, D. C.
 Pierce, Marcia E., Washington, D. C.
 Robey, Carrie E., Beltsville
 Santinie, Antoinette A., Silver Spring
 Schumann, Paul A., New Brunswick, N. J.
 Siddall, Blanche, Washington, D. C.
 Siddall, Emilie E., Washington, D. C.
 Siehler, Adele M., Catonsville
 Turner, Eunice E., Burtonsville
 Wallace, Marion W., Sudlersville
 Ward, Kenneth B., Owings
 Wilson, Arthur M., Pylesville
 Wilson, Charles M., Ingleside
 Wimer, Mildred H., Palmyra
 Woodward, Rebecca L., Washington, D. C.

UNCLASSIFIED

Kemp, Grace V., Baltimore

EXTENSION TEACHER-TRAINING COURSES (BALTIMORE)

Allen, Douglas	Frazier, G. H.	McGovern, Joseph L.
Allison, Robert T.	Freeland, M. I.	Meyers, George A.
Anderson, J.	Galley, Joseph N.	Miller, H. A.
Askew, Howard	Gambrill, F. B.	Mills, Boyd C.
Ball, Harry C.	Ginn, Sylvester W.	Moore, James E.
Balsom, F. A.	Glines, C. V.	Moore, Levi W.
Banahan, R.	Golder, Harry L.	Moulton, Herbert C.
Bartle, P.	Greene, John M.	Mellen, W.
Boylan, Edward M.	Griffith, W. L.	Murray, John
Briscoe, Joseph C.	Guest, F. C.	Nelson, O. A.
Brodsky, M.	Haefner, William F.	Ogle, C.
Brown, J. Alexander	Halden, James	Oliver, Marion
Burton, H.	Haslup, DeWilton	Pahl, William
Cammann, John S.	Hastings, F. M.	Palmer, J.
Canner, A. D.	Hennessey, Mark M.	Quinan, Allen J.
Carr, Milton J.	Hennig, R.	Raabe, H. L.
Cavano, H.	Higgins, Elwood	Radbell, Isadore
Clark, Lloyd A.	Higgins, H. J.	Reier, Alverta E.
Cogswell, L.	Hill, John O.	Robinson, Allan
Cooney, E.	Hoover, H. W.	Schleicher, Henry
Cromb, Frank E.	Jolly, William H.	Schroepfer, Edward
Cullison, I. G.	Jones, Reuben F.	Seidel, John J.
Culver, C. H.	Kaiser, Karl H.	Seiss, Ralph E.
Dadd, J. F.	Kemp, B.	Sendelbach, John E.
Davis, Lee A.	Kent, H. G.	Smith, F. C.
Deussen, Henry	King, James T.	Smith, Kercheval E.
Diedrick, M. M.	Kiser, Ruth	Standiford, D. P.
Dippel, Amelia	Klepper, Charles E.	Taylor, G. S.
Disney, R. E.	Krausse, Harry W.	Townshend, Howard E.
Dressel, H. W.	Krausz, Howard L.	Traynham, Hezekiah
Dronsfield, L.	Lacey, J.	Tucker, G. F.
Echols, David A.	Lamer, A.	Viets, C. F.
Emmart, Cary F.	Leape, Lucian L.	Washington, Howard E.
Evans, Berkley	Lee, E. C.	Waters, Wilmore E.
Evans, R. C. P.	Long, Oscar W.	Wilhide, Paul A.
Fankland, R. E.	Longley, E. L.	Wright, William B.
Fites, W. C.	Martin, James G.	Zusle, Howard E.
Flichman, W.	McAuliffe, Cornelius J.	

COLLEGE OF ENGINEERING

SENIOR CLASS

Aldridge, David D., Frederick	McCauley, George M., Washington, D. C.
Allen, Edward R., Towson	McFadden, Charles P., Elkton
Bishop, William E., Washington, D. C.	McKeige, Edward E., Mt. Rainier
Bonnett, Arthur E., Washington, D. C.	Morris, John D., Sykesville
Brayton, Jean H., Washington, D. C.	Moseman, Carvel G., Washington, D. C.
Caruthers, Robert S., Riverdale	Parker, Alvin M., Washington, D. C.
Coblentz, Edwin P., Catonsville	Pinney, Millard A., Washington, D. C.
DeAtley, Ellsworth F., Washington, D. C.	Revelle, John E., Washington, D. C.
Fisher, Albert B., Point of Rocks	Rothenhoefer, Frank W., Frederick
Glover, Charles P., Mt. Airy	Runkles, Oliver W., Mt. Airy
Kellerman, William F., Washington, D. C.	Seth, Joseph B., St. Michaels
Kline, William M., Washington, D. C.	Strite, Russell B., Baltimore
Lebowitz, Samuel, Mt. Rainier	Thompson, Edward S., Rosslyn, Va.
Lillie, Francis T., Takoma Park	Trimble, William R., Washington, D. C.
Magalis, Benjamin W., Brunswick	White, Martin H., Washington, D. C.

JUNIOR CLASS

Bewley, William G., Berwyn	Lang, John C., Pocomoke
Bittner, John H., Berwyn	LeSueur, Benjamin W., Baltimore
Boteler, Clifford E., Beltsville	Lynn, Roland A., Hagerstown
Butler, Charles W., Washington, D. C.	Marks, Edward B., Washington, D. C.
Coakley, Forrest, Havre de Grace	Morrison, George W., Port Deposit
Coblentz, Oscar B., Jr., Catonsville	Murray, Herbert S., Washington, D. C.
Cooling, William C., Cheasapeake City	Ninas, George A., Gaithersburg
Crawford, Thomas B., Havre de Grace	Peverill, William L., Washington, D. C.
Davis, Robert B., Baltimore	Rohrbaugh, Robert M., Mt. Rainier
Easter, Henry J., Baltimore	Schrader, Floyd F., College Park
Elgin, Wade H., Washington, D. C.	Smither, Herbert A., Cumberland
England, Adelbert G., Raspeburg	Spence, Kenneth F., Hancock
Finch, Harold W., Washington, D. C.	Stevens, Raymond L., Hyattsville
Fox, Henry C., Baltimore	Street, Wilbur A., Govans
Funk, Creston E., Hagerstown	Thomen, Harold O., Washington, D. C.
Garber, Harry F., Washington, D. C.	Triplett, Paul W., Cumberland
Glover, Nathan D., Mt. Airy	Weber, Charles S., Oakland
Hassler, Howard E., Washington, D. C.	Wenner, Edward M., Point of Rocks
Hickox, Malcolm, Washington, D. C.	White, Wilbur M., Princess Anne
Korff, William F., Baltimore	

SOPHOMORE CLASS

Baird, Lester P., Washington, D. C.	Lyons, Thomas H., Clinton
Bean, Robert C., Washington, D. C.	Mackintosh, James T., Washington, D. C.
Bomberger, Lawrence J., College Park	Maloney, Herndon, L., Washington, D. C.
Bowman, Julian U., Germantown	Marseglia, Milton, Washington, D. C.
Brady, Leslie R., Laurel	Matthews, John A., Cumberland
Bruehl, William O., Centreville	Melvin, D. Alan, Havre de Grace
Bryan, William L., Washington, D. C.	Miller, Norman E., Bethesda
Caldwell, Charles H., Baltimore	Miller, Robert S., Cumberland
Clausell, Carlos A., Mexico City, Mexico	Noll, Adam M., Ellicott City
Cleveland, James Y., Washington, D. C.	Norris, Elick E., Washington, D. C.
Cramer, Baxter B., Walkersville	Paige, Edwin C., Linthicum Heights
Daly, John K., Washington, D. C.	Palmer, Robert L., Landover
Davidson, James S., Washington, D. C.	Parris, Donald S., Rowlandville
Diener, Alfred F., Washington, D. C.	Putnam, William D., Garrett Park
Duvall, John C., Washington, D. C.	Rader, O. Lester, Washington, D. C.
Dynes, William A., Chevy Chase	Rehberger, Elmer H., Baltimore
Emerson, Robert B., Washington, D. C.	Richard, George R., Goldsboro
Fifer, William H., Galesville	Riess, Herman P., Washington, D. C.
Foehl, Edward A., Washington, D. C.	Shelton, Charles L., Chevy Chase
Garrett, Franklin T., Takoma Park, D. C.	Stephens, Thomas H., Washington, D. C.
Greenwood, Arthur W., Washington, D. C.	Strohman, Joseph W., Washington, D. C.
Hampton, Horace R., Chevy Chase	Swenton, Charles S., Meriden, Conn.
Hitch, Robert A., Washington, D. C.	Thomas, Lewis W., Washington, D. C.
Iglehart, William H., Washington, D. C.	Wells, Harry W., Chevy Chase
Kielty, John J., Aberdeen	Welsh, Robert R., Washington, D. C.
Loux, John H., Hurlock	Welchel, David L., Washington, D. C.
Lowe, Delbert B., Mt. Rainier	Wooster, Mallery O., Berwyn

FRESHMAN CLASS

Anderson, Bowman C., Clarendon, Virginia	Beauchamp, Earl, Westover
Barnes, John C., Sykesville	Betts, James W., Salisbury
Barto, John C., Cordova	Bikle, Christian B., Hagerstown
Basford, Alvin, Washington, D. C.	Blakeslee, Raymond D., Washington, D. C.

Bock, James D., Mt. Rainier
 Bryan, Alexander M., Indian Head
 Burdette, William M., La Plata
 Burg, Alfred C., Washington, D. C.
 Cashell, Harry D., Washington, D. C.
 Caulk, Franklin J., Sharptown
 Clements, John W., Lucerne Mines, Pa.
 Colburn, Raymond, Havre de Grace
 Dauber, Rudolph W., Washington, D. C.
 Davis, O. Bruce, Weston, W. Va.
 Dean, Thurston N., Washington, D. C.
 Dennison, William E., Washington, D. C.
 Dodd, Arthur E., Salisbury
 Dodge, Frederick A., Jr., Washington, D. C.
 Dyer, Benjamin, Washington, D. C.
 Elliott, William H., Oxford
 Epple, Richard J., Ridgewood, N. J.
 Evans, Robert, Washington, D. C.
 Froehlich, Arthur A., Crisfield
 Geddes, Bruce B., Washington, D. C.
 Goldman, Orville M., Washington, D. C.
 Gordon, James M., Takoma Park
 Gorgas, Herbert D., Baltimore
 Graham, Thomas H., Washington, D. C.
 Gregory, James A., Washington, D. C.
 Grieb, William E., Washington, D. C.
 Hall, Jay V., Washington, D. C.
 Hall, Richard S., Waterbury
 Haller, Franklin M., Brandywine
 Holloway, William W., Salisbury
 Hoover, John F., Washington, D. C.
 Hopkins, Ralph B., Washington, D. C.
 Iager, Raymond F., Washington, D. C.
 Jensen, William O., Baltimore
 Just, Charles H., Landover
 Kelly, Arthur F., Washington, D. C.
 Kettler, Clifford T., Washington, D. C.
 Koons, Charles V., Washington, D. C.
 Lankford, Howard J., Pocomoke
 Latham, William T., Washington, D. C.
 Leach, John M., Washington, D. C.

Loane, Emmett T., Baltimore
 Malmberg, Cyrus G., Riverdale
 McCoy, John C., Bradford, Pa.
 Morse, Dan E., Pocomoke
 Munroe, Benjamin, Jr., Takoma Park, D. C.
 Perham, John E., Hagerstown
 Pisapia, Edward A., Washington, D. C.
 Popek, Joseph J., Passaic, N. J.
 Price, Edgar O., Lutherville
 Price, Milton M., Washington, D. C.
 Price, Thomas M., Washington, D. C.
 Ramsey, Preston W., Delta, Pa.
 Ricketts, Raymond H., Brooklandville
 Ripple, John F., Cheltenham
 Roeder, John H., Cumberland
 Russell, William I., Washington, D. C.
 Sangston, Howard E., Washington, D. C.
 Schofield, William C., Washington, D. C.
 Schroeder, Perry S., Washington, D. C.
 Sechrist, Edward P., Washington, D. C.
 Sener, Mandel M., Baltimore
 Shenck, George A., Landisville, Pa.
 Simmons, B. Stanley, Washington, D. C.
 Slack, John C., Washington, D. C.
 Spicknall, Norval H., Hyattsville
 Stephens, Francis D., Washington, D. C.
 Stoll, Harold F., Washington, D. C.
 Sullivan, William W., Landover
 Taylor, Theret T., Cumberland
 Thoma, Joseph C., Salisbury
 VanAllen, Ralph C., Washington, D. C.
 Vierkorn, Jack, Washington, D. C.
 Wallett, Fred D., Havre de Grace
 Weirich, Alfred F., Hyattsville
 Weiss, Theodore B., Newark, N. J.
 Wheeler, Henry E., Bel Air
 Whiteford, Henry S., Baltimore
 Willmuth, Charles A., Kenilworth
 Wilson, William S., Salisbury
 Winant, Frank I., Jr., Mt. Rainier

EXTENSION CLASSES IN MINING

FROSTBURG CLASS

Albright, George B.	Carter, Frank W.	Eisel, Robert B.
Anthony, G. M.	Carter, Robert	Eisel, William R.
Bahen, John	Casey, John L.	Ewing, J. Paul
Baker, Daniel	Clark, Edward F.	Ewing, Robert
Baker, Edward	Close, James H.	Fatkin, John
Baker, William	Close, Noah	Festerman, Walter
Bolden, William A.	Connor, John	Finzel, Joseph E.
Brode, George W.	Davis, Archie	Fisher, William
Brode, Howard	Deffinbaugh, Albert	Fitzpatrick, Ambrose
Brode, Leo G.	Dennison, Allen	Harvey, George
Brode, Solomon H.	Donahue, William J.	Haverstick, S. Graff
Byrnes, Bernard D.	Drees, George H.	Hawkins, Richard
Callen, Richard	Edwards, Robert L.	Hitchins, Harry C.

Hitchens, L. Grant
 Huber, Oscar C.
 James, J. A.
 Jenkins, Joseph
 Joyce, William
 Kallmyer, Harold
 Knight, Elmer S.
 Knierman, Henry
 Komatz, Anton
 Laber, James R.
 Lancaster, William
 Laurie, Charles
 Lee, Maurice
 Lewis, Charles E.
 Lewis, Thomas F.
 Lewis, William K.
 Long, Hubert E.

Maley, Samuel
 Martin, Bernard
 Meager, Victor
 Parise, Thomas
 Powell, Thomas B.
 Powers, Clarence
 Price, Daniel E.
 Rebold, Rudolph
 Reed, Melvin
 Rephorn, William
 Riffle, Fred
 Rowe, Joseph
 Schriver, George
 Seibert, Jacob
 Skidmore, Earl
 Snyder, Lawrence
 Stanton, Marshall L.

Stevens, Eugene
 Sullivan, Patrick
 Taccino, Michael
 Tennant, George
 Thomas, Lewis
 Thomas, William H. R.
 Tippin, Walter
 Voghtman, Arthur W.
 Walbert, Thomas
 Walker, Samuel T.
 Warner, James
 Weisenborn, James A.
 Wellings, George
 Williams, Frank
 Winters, William H.
 Wolfe, Charles

KEMPTON CLASS

Bowers, Harry
 Brawl, Bernard
 Costello, John
 Cross, Marquis
 Day, Arthur
 Dice, E. P.
 Friend, Earnest
 Hamilton, Robert
 Harvey, Newman
 Hoopengardner, George

Iman, Walter G.
 James, Arthur
 King, Albert
 King, Arthur
 King, E. G.
 King, W. E.
 Lantz, A. L.
 Lantz, Cecil
 Moreland, J. L.
 Morris, Michael

Repetsky, William
 Rickard, Robert
 Seymour, William
 Staffa, Peter
 Swires, Charles
 Tomiko, Albert
 Welch, Warren
 Wilk, Frank
 Winfree, E. S.
 Wolfe, Oscar

KITZMILLER CLASS

Balyard, Asa
 Bowers, Garfield
 Burrell, Fitzhugh
 Campbell, Robert
 Chisholm, A. J.

Davis, Charles W.
 Hartley, William M.
 Jones, C. H.
 Newhouse, Stephen
 Parrish, George

Pritts, George W.
 Spiker, John R.
 Tasker, Osburn W.
 Walker, J. J.
 White, William

LONACONING CLASS

Atkinson, Edward
 Barry, John M.
 Canning, Thomas
 Clise, John
 Connor, Henry
 Cullen, John
 Duckworth, Simeon H.
 Dunn, Lawrence
 Foote, Felix, Jr.
 Foote, John R.
 Getson, Charles
 Getson, J. E.

Glen, Robert L.
 Kirkwood, Robert
 Laird, Clarkson
 Laslo, Henry
 McElvie, J. A.
 McFarlane, Samuel B.
 McGeady, M. A.
 Miller, James A.
 Moffett, Richard
 Morgan, Harold
 Morgan, Marcellus
 Muir, Edward

Nichol, Cecil
 Poland, Charles
 Powers, Thomas L.
 Quinn, J. Frank
 Smith, John
 Staken, Clement
 Steele, Thomas
 Stevenson, John P.
 Turnbull, William
 Turnbull, William C.
 Whiteman, Simeon
 Williams, David

WESTERNPORT CLASS

Arnold, H. B.
Ashby, Lawrence
Ashby, R. M.
Athey, Ellsworth
Athey, John S.
Athey, Russell
Brown, J. P.
Cosgrove, J. A.

Davis, Harrison
Frenzel, A. L.
Griffith, Curtis
Guy, Frederick
Guy, John F.
Guy, J. P.
Hughes, John T.
Hyde, Carson F.

Kight, L. R.
Myers, Clarence C.
Penman, Andrew
Russel, Ellsworth
Shuhart, Joseph
Welsh, Charles J.
Welsh, James A.

GRADUATE SCHOOL

Aldrich, Willard W., Port Deposit
Aldridge, Howard R., Mt. Savage
Anderson, Pearl, Amherst, Mass.
Besley, Arthur K., Baltimore
Boswell, Victor R., College Park
Bouis, George E., Mt. Washington
Bowman, John J., Washington, D. C.
Brenton, Walter, Drexel Hill, Pa.
Brewer, Virginia W., College Park
Bromley, Walter D., Pocomoke
Brookens, P. Floyd, Hyattsville
Burdette, Robert C., Silver Spring
Burroughs, John A., Lisbon
Cadisch, Gordon F., Westbury, N. Y.
Carter, Ray M., Baltimore
Clapp, Houghton G., Brentwood
Coblentz, Maurice H., Baltimore
Cooke, Giles B., Gloucester, Va.
Crider, Bess M., Jefferson, Okla.
Darkis, Frederick R., College Park
Daskais, Morris H., Baltimore
Davis, Charles C., Baltimore
Dillman, Arthur C., Washington, D. C.
Dorsey, Anna H. E., Ellicott City
Ehrenfeld, Day, Edgewood
Ellis, Ned R., Washington, D. C.
Eppley, Elizabeth F., College Park
Eppley, Geary, College Park
Fancher, George H., Downey, Calif.
Field, Frank A., Catonsville
Flenner, Albert L., College Park
Ford, Edwin L., Washington, D. C.
Gardner, G. Page, Middletown
Gates, Philip W., Rockville
Gibson, Arthur M., Baltimore
Goshorn, John C., Baltimore
Haines, George, Hyattsville
Hale, Roger F., Towson
Haller, Mark H., Washington, D. C.
Harden, Wilton C., Catonsville
Harley, Clayton P., College Park
Himmel, Mildred R., Baltimore
Hock, Reuben L., Baltimore
Horn, Millard J., Washington, D. C.
Howard, Dowell J., Brookeville
Hummel, Melvin R., Baltimore

Hunter, Herman A., Clinton, S. C.
Isbell, Horace S., Denver, Colo.
Jacobs, Carl B., Linthicum Heights
Johnson, Wm. Leo, Baltimore
Jones, John M., Baltimore
Kerr, William L., Rockspring, Ontario, Canada
Knight, Paul, Frederick, Ill.
Krantz, John C., Baltimore
Leatherman, Martin L., Lodi, Ohio
Lichtenwalner, Daniel C., Tatome, Pa.
Macredy, James R., Baltimore
Malcolm, Wilbur G., Barton
Marshall, Housden L., Washington, D. C.
Martin, Thomas C., Hughesville
Mason, Albert F., New Brunswick, N. J.
McBride, H. E., Washington, D. C.
McCall, Max A., Takoma Park
McKenna, Elizabeth, Midland
McKibbin, Reginald R., Ottawa, Canada
McKinnell, Isabel E., Chester, S. C.
Melroy, Malcolm B., Washington, D. C.
Minatra, C. Odie, Ennis, Texas
Mook, Paul V., Saegertown, Pa.
Moulton, Carl H., Baltimore
Moyer, Andrew J., Crawfordsville, Ind.
Ordeman, Daniel T., Frederick
Peltier, Paul X., Spencer, Mass.
Poelma, Leo J., Riverdale
Pope, Merritt N., Falls Church, Va.
Reichert, Joseph, Baltimore
Reinmuth, Otto P. H., Catonsville
Rich, William R., Baltimore
Robison, Daisy S., Barbourville, Ky.
Rothgeb, Russell G., Washington, D. C.
Rudel, Harry W., Baltimore
Runk, Charles R., Newark, Del.
Schaub, Beulah M., Baltimore
Scruton, Herbert A., Baltimore
Shepard, Harold H., Hyattsville
Siegel, Maurice, Savannah, Ga.
Sieglar, Edward H., Takoma Park
Smith, Charles L., Covin, La.
Snyder, Joseph, Riverdale
Stamp, Adele H., College Park
Starkey, Edgar B., Baltimore
Stockebrand, Albert K., Mt. Rainier

Straka, Robert P., Homestead, Pa.
Straughn, William D. R., Baltimore
Summerill, Richard L., Penns Grove, N. J.
Upshall, W. Harold, Ontario, Canada
Vanden Bosche, E. G., Baltimore
Wadkins, Ross F., Opelika, Ala.
Walker, William P., Mt. Airy
Walter, Henry M., Washington, D. C.
Weber, Wilhelm H., Oakland
Welsh, Claribel P., College Park
Welsh, Mark F., College Park

Wheaton, I. Evan, Greenwich, N. J.
White, Charles E., Washington, D. C.
Whitehouse, William E., Manchester, N. H.
Whitney, Frank C., Edgewood
Wickard, H. C., Cumberland
Wilson, N. John, Frederick
Winkjer, Thelma H., Washington, D. C.
Wolf, Edgar F., Hagerstown
Worthington, Katherine K., Baltimore
Worthington, Leland G., Berwyn

COLLEGE OF HOME ECONOMICS

SENIOR CLASS

*Langenfeldt, Marie E., Baltimore

Riley, Mary E., Hyattsville

JUNIOR CLASS

Beyerle, Helen G., Baltimore
Blandford, Josephine M., College Park
Calbreath, Ellen F., Washington, D. C.
Chesnüt, Gertrude, Hyattsville
Grove, M. Ethel, Hagerstown

Keiser, Ellen J., Washington, D. C.
Mankin, Jane L., Washington, D. C.
McRae, Ruth H., Riverdale
Muncaster, Jessie F., Rockville
Ripple, Grace A., Cheltenham

SOPHOMORE CLASS

Burdick, Alice L., Baltimore
Edmonds, Olive S., Rockville
Godbold, Josephine, Cabin John

Gunby, Frances L., Salisbury
Williams, Ruth T., Lanham
York, Mary S., College Park

FRESHMAN CLASS

Appleman, Katharine A., College Park
Bonnett, Alice G., Washington, D. C.
Bonnett, Mildred D., Washington, D. C.
Bourke, Mary L., Washington, D. C.
Edmonds, Mena R., Washington, D. C.
Harbaugh, Phyllis, Washington, D. C.
Herzog, Aline E., Washington, D. C.
Hoffman, Anne H., Baldwin

Lighter, M. Grace, Middletown
Martin, Cornelia, Hughesville
McMinimy, Margaret M., Washington, D. C.
Moore, Evelyn L., Laurel
Morris, M. Naomi, Salisbury
Price, Anna L., Queenstown
Prince, Margaret V., Ilchester

UNCLASSIFIED

Kharasch, Ethel M., Riverdale

SCHOOL OF LAW

SENIOR CLASS

Adelberg, Harry, Baltimore
Ash, George R., Elkton
Baker, Morris A., Baltimore
Barrett, Lester L., Landsdowne
Barron, Sylvan, Baltimore
Baur, Gerard F., Baltimore
Becker, Jos. W., Baltimore

Blaustein, Bernard N., Baltimore
Beacham, Robert J., Jr., Baltimore
Beigel, Philip, Baltimore
Bostetter, Martin V. B., Hagerstown
Brouner, Charles J., Detroit, Mich.
Brown, Helen E., Baltimore
Butler, John M., Baltimore

Caldwell, Walter S., Baltimore
 Campbell, Kenneth H., Baltimore
 Carliner, Samuel, Baltimore
 Civis, Joseph A., Baltimore
 Coady, Charles P., Jr., Baltimore
 Cohen, Calvin E., Baltimore
 Cohen, John H., Baltimore
 Cohen, Paul M., Baltimore
 Cohen, Sidney O., Baltimore
 Colvin, Joseph, Baltimore
 Cooper, Hart, Baltimore
 Cooper, Margaret B., Baltimore
 Daily, Frank J., Baltimore
 Day, Stewart O., Rocks
 De Lauder, Thomas A., Baltimore
 Delea, Michael F., Baltimore
 Denhard, August A., Baltimore
 Diczno, George G., New Haven, Conn.
 Di Domenico, Anthony F., Baltimore
 Dillon, John J., Baltimore
 Ditto, John H., Baltimore
 Doub, George C., Cumberland
 Eder, Joseph R., Baltimore
 Eisenberg, Samuel S., Baltimore
 Engler, Donald H., Baltimore
 Epstein, Max, Baltimore
 Evans, Harvey L., Baltimore
 Every, William F., Baltimore
 Fink, William, Baltimore
 Fisher, Irvin H., Baltimore
 Fitzsimmons, Carroll F., Baltimore
 Franklin, Neal D., Camp Meade
 Freeze, Frank L., Jr., Baltimore
 Friedenber, Aaron, Baltimore
 Galvin, John P., Jr., Baltimore
 Goldsborough, Leroy F., Ruxton
 Goldsmith, Howard F., Baltimore
 Golomb, Philip N., Baltimore
 Greenfeld, William, Baltimore
 Hallam, Henry J., Arlington
 Hamburger, Nathan, Baltimore
 Hampson, George M., Baltimore
 Hancofsky, Michael J., Baltimore
 Harmatz, Leonard J., Baltimore
 Harrison, Erman, Baltimore
 Hecht, Lawrence W., Havre de Grace
 Hendelberg, Philip, Baltimore
 Hoffa, James M., Lonaconing
 Holmes, Arthur C., Baltimore
 Hood, John W., Baltimore
 Hudgins, Leslie G., Gwynn, Va.
 Huey, Edw. G., Ruxton
 Iverson, George D., Jr., Baltimore
 Iverson, George D., III, Baltimore
 Jacobs, Benedict Q., Baltimore
 Joblin, Israel M., Baltimore
 Kappelman, Leon I., Baltimore
 Kaufman, Ora V., Baltimore
 Kelso, Charles A., Jr., Baltimore

Kirwan, J. Dallas
 Klein, Irvin, Baltimore
 Klitzner, Frank, Baltimore
 Kloze, Ida I., Baltimore
 Knabe, Lloyd C., Baltimore
 Kurland, Edwin L., Baltimore
 Laukaitis, John J., Baltimore
 Lederman, Edw., Baltimore
 Leven, Milton, Baltimore
 Levene, August, Baltimore
 Levey, Harry I. D., Baltimore
 Le Viness, Charles T., Jr., Baltimore
 Lipman, Samuel G., Baltimore
 Lott, Harry, Baltimore
 Lowe, Allan B., Baltimore
 Malan, Albert A., Baltimore
 Marshall, William H., Baltimore
 Masson, Charles A., Baltimore
 Metcalfe, Herbert C., Baltimore
 Mihm, Leslie E., Baltimore
 Minahan, Raymond D., Sparrows Point
 Mish, Joseph D., Hagerstown
 Moore, John J., Baltimore
 Moore, John P. T., Woodbrook
 Mount, Charles O., Baltimore
 Muth, Gerald J., Catonsville
 Meyerberg, David, Baltimore
 Myers, Israel, Baltimore
 Myers, John B., Sarasota, Fla.
 Nathanson, Melvin, Baltimore
 Novey, Julius A., Baltimore
 Nuttle, Everett, Federalburg
 O'Dell, Edw. C., Baltimore
 Patz, Nathan, Fayetteville, N. C.
 Pairo, Preston, Baltimore
 Pear, Solomon, Baltimore
 Perry, Thornton T., Jr., Baltimore
 Pfaffenbach, George A., Havre de Grace
 Powell, Bernard R., Franklin City, Va.
 Respass, Homer M., Baltimore
 Rice, Thomas W., Baltimore
 Rifman, A. K., Baltimore
 Roeder, George H., Baltimore
 Rostovsky, Abraham, Baltimore
 Roth, Edw. P., Baltimore
 Rubenstein, Arthur C., Baltimore
 Rubin, Irwin, Baltimore
 Sachs, Abraham I., Baltimore
 Saffell, William H., Baltimore
 Sager, Harry H., Front Royal, Va.
 Savage, Bernard M., Baltimore
 Schiffer, Rosa, Baltimore
 Schilpp, Carroll B., Baltimore
 Schmidt, Robert A., Baltimore
 Schultz, Kendall H., Baltimore
 Selenkow, Annette, Baltimore
 Shafer, Lester T. D., Baltimore
 Sherr, Meyer, Baltimore
 Shochet, Jacob E., Laurel

Silver, Barnett L., Baltimore
 Silver, Morris L., Baltimore
 Silverstein, Louis, Baltimore
 Smalkin, Samuel S., Baltimore
 Smith, Arthur H., Baltimore
 Smith, Cloter W., Baltimore
 Smith, Joseph M., Glyndon
 Stewart, Rae W., Baltimore
 Stine, Isaac F., Winchester, Va.
 Sweetman, Charles R., Baltimore
 Sykes, Alfred J., Baltimore
 Talkin, Milton H., Baltimore

Taylor, Levin P., Quantico
 Trieschman, Albert E., Randallstown
 Tull, Leroy J., Annapolis
 Tull, Samuel W., Baltimore
 Ulman, Paul A., Baltimore
 Usilton, David R., Baltimore
 Ways, Charles M., Baltimore
 Weil, John D., Baltimore
 Weinstein, Joseph, Baltimore
 Williams, John D., Baltimore
 Wolfel, William E., Baltimore
 Zetzer, Samuel, Baltimore

INTERMEDIATE CLASS

Abramson, Leon, Baltimore
 Adler, Bernard B., Baltimore
 Albert, Morris, Baltimore
 Allnutt, Robert W., Dawsonville
 Applefeld, Leon, Baltimore
 Archer, James G., Jr., Bel Air
 Baker, Russell J., Baltimore
 Baldwin, Rignal W., Baltimore
 Bartels, William N., Baltimore
 Becker, Benjamin S., Baltimore
 Becker, Edward D., Baltimore
 Berkowitz, Henry G., Baltimore
 Blalock, Hubert, Baltimore
 Blickenstaff, Harold E., Boonsboro
 Bloom, Benj. M., Baltimore
 Bond, Earle I., Baltimore
 Brannan, Edward J., Baltimore
 Brown, James R., Jr., Baltimore
 Bryan, Richard M., Baltimore
 Burns, John F., Baltimore
 Caplan, Reuben, Baltimore
 Carmody, Ivan M., Baltimore
 Cohen, Hyman I., Baltimore
 Croker, John H., Baltimore
 Darley, George L., Baltimore
 Dorsey, Charles A., Pikesville
 Downes, James D., Jr., Baltimore
 Doyle, III, James, Towson
 Duckett, Oden B., Jr., Annapolis
 Everett, John W., Centreville
 Fasano, Arnold, New Haven, Conn.
 Ferguson, Wm. K., Baltimore
 Freeman, Aaron, Baltimore
 Freeman, Ellis, Baltimore
 Flautt, Ernest G., Baltimore
 Forestell, Frank W., Baltimore
 Fribush, Abe, Baltimore
 Friedman, Max, Baltimore
 Friese, Philip C., Riderwood
 Geckle, George F., Waverly
 Gersow, Lillian, Baltimore
 Gillespie, William A., Jr., Baltimore
 Ginsberg, Hyman, Baltimore
 Ginsburg, Herman R., Baltimore

Goldstein, Aaron I., Baltimore
 Goldstein, Clarence M., Baltimore
 Goldstein, C. Ellis, Baltimore
 Goner, Bessie, Baltimore
 Goodman, Max, Baltimore
 Gould, Justinus, Baltimore
 Green, Harry J., Baltimore
 Greenberg, Rosalind, Baltimore
 Gueydan, Lucie M., Baltimore
 Gutmann, Charles H., Baltimore
 Hackerman, Milton, Baltimore
 Hall, Dorothy M., Baltimore
 Handy, Sydney S., Jr., Baltimore
 Hartman, Charles C., Arlington
 Higgins, James B., Baltimore
 Hillman, Sydney E., Baltimore
 Hipsley, Stanley P., Baltimore
 Hudgins, Charles H., Baltimore
 Hurwitz, Sylvan, Baltimore
 Jenifer, Thomas M., Baltimore
 Johannsen, Mildred, Baltimore
 Kaufman, Harry D., Baltimore
 Kerr, Nelson R., Baltimore
 Klein, Daniel E., Baltimore
 King, Joseph A., Baltimore
 Kirkpatrick, Andrew M., Baltimore
 Krantz, Maximilian W., Baltimore
 Lazarus, Sam, Baltimore
 Lebowitz, Manuel, Baltimore
 Legg, John H. E., Centreville
 Levin, Sigmund, Baltimore
 Levin, Solomon, Baltimore
 Leyko, James W., Baltimore
 Levy, Walter J., Baltimore
 Lipnick, David A., Baltimore
 Luke, Richard T., Charlestown, W. Va.
 Lyden, Edward, Baltimore
 Lyon, Robert M., Jr., Baltimore
 MacGregor, Robert W., Baltimore
 Mackert, Wm. R., Baltimore
 Maddrix, F. Kirk, Baltimore
 Mahoney, Mortimer M., Jr., Baltimore
 Mahr, Abraham, Baltimore
 Malin, Harry L., Baltimore

Manfuso, John A., Baltimore
 Markoff, David J., Baltimore
 McGovern, Joseph, Jr., Baltimore
 McKenney, John, Centreville
 Meyer, Leo J., Baltimore
 Miller, Harry H., Baltimore
 Moore, Herbert C., Jr., Baltimore
 Moriarty, Edward E., Baltimore
 Morrison, Harry H., Baltimore
 Mund, Alfred S., Baltimore
 Murphy, Edwin J., Baltimore
 Nasdor, Harry L., Baltimore
 Ningard, Paul S., Baltimore
 Norris, Wm. I., Jr., Baltimore
 O'Ferrall, Alfred J., Jr., Baltimore
 Ohen, Mickey, Baltimore
 O'Shea, John A., Baltimore
 Poffenberger, Leonard F., Hagerstown
 Panetti, Edwin S., Baltimore
 Pariser, Henry, Baltimore
 Patterson, Lyman, Baltimore
 Pegram, Francis E., Jr., Baltimore
 Perkins, E. Francis, Baltimore
 Phillips, Jesse C., Randallstown
 Phipps, Elmer E., Baltimore
 Pinerman, Eli H., Baltimore
 Richards, Granville P.,
 Rollins, Clarence L., Baltimore
 Roman, Isadore, Baltimore
 Rosenberg, Jennie, Baltimore
 Rosenstein, Jesse A., Baltimore

Rutledge, George P., Baltimore
 Sacks, Joseph, Baltimore
 Saiontz, David S., Baltimore
 Sapiro, Samuel S., Baltimore
 Sapperstein, Rose, Baltimore
 Schmidt, Edward H., Baltimore
 Shapiro, Morton, Baltimore
 Shuman, Charles L., Baltimore
 Siegel, Jeanette R., Baltimore
 Silver, Harry, Baltimore
 Sirkin, Sidney H., Baltimore
 Smalkin, Harry R., Baltimore
 Smith, Bernard R., Baltimore
 Smith, Frederick C., Jr., Baltimore
 Smith, William, Jr., Baltimore
 Sollod, Isadore I., Baltimore
 Solomon, Charles
 Stone, Amelia M., Baltimore
 Swartz, James M., Baltimore
 Terlitzky, Isador B., Baltimore
 Tietzer, Morris, Baltimore
 Unger, Benjamin, Baltimore
 Vickers, Powell, Baltimore
 Weaver, Alva P., Jr., Baltimore
 Weinstein, Henry A., Baltimore
 Werner, Samuel, Reading, Pa.
 Wilson, William S., Baltimore
 Wise, Milton, Baltimore
 Wolf, Edwin J., Baltimore
 Wright, Francis J., Manchester, Conn.

FRESHMAN NIGHT CLASS

Albrecht, Clinton W., Baltimore
 Altman, Samuel B., Baltimore
 Amenta, Harry Rosario
 Aronson, Bernard A., Baltimore
 Ashman, Harry, Catonsville
 Atwood, Horace B., Baltimore
 Ball, Ronald D., Baltimore
 Becker, Henry J., Baltimore
 Benjamin, James L., Salisbury
 Berman, Max L., Baltimore
 Bernstein, Charles S., Baltimore
 Bien, David W., Raspeburg
 Blumberg, Albert E., Charleston, W. Va.
 Bollinger, William D., Glyndon
 Bond, William G., Cockeysville
 Brandt, Edw. E., Baltimore
 Bristow, Schuyler W., Baltimore
 Brown, Thomas C., Baltimore
 Bruce, Robert M., Cumberland
 Budnick, Isadore, Baltimore
 Businsky, Francis J., Baltimore
 Cardin, Meyer M., Baltimore
 Chambers, Robert, Baltimore
 Chayt, Sidney, Baltimore
 Christian, Thos. L., Baltimore

Clark, Thos. J., Baltimore
 Clautice, Joseph W., Baltimore
 Cobb, George, Baltimore
 Cohen, Morton, Baltimore
 Cohn, Phillip, Baltimore
 Cohen, Raymond, Baltimore
 Cooper, Benjamin B., Baltimore
 Crane, Chas., Baltimore
 Crawford, Stewart B., Baltimore
 Cromwell, E. Stanley, Baltimore
 Danziger, Lewis, Baltimore
 Darsch, Earl Philip, Baltimore
 Davison, Irvin, Baltimore
 Deponai, John M., Baltimore
 Dillingham, Conway C., Baltimore
 Di Paula, Anthony, Baltimore
 Ditman, Paul L., Baltimore
 Dixon, Lloyd G., Baltimore
 Doub, Albert A., Jr., Cumberland
 Doughney, Thos. Patrick, Baltimore
 Doyle, James L., Baltimore
 Dumber, John O., Baltimore
 Egarter, Alfred H., Baltimore
 Entrekin, James W., Chester, Pa.
 Eser, Walter J., Baltimore

Farber, Samuel S., Baltimore
 Fell, Ellis M., Baltimore
 Fenton, Foster T., Baltimore
 Field, Benjamin W., Baltimore
 Fitzpatrick, John J., Baltimore
 Fletcher, Paul M., Cumberland
 Flynn, Paul J., Baltimore
 Fossett, Frank M., Baltimore
 Freed, Irvin F., Baltimore
 Fringer, John H., Pikesville
 Gensberg, Isidore, Baltimore
 Gerson, Harry J., Frostburg
 Goldring, Mavis A., Baltimore
 Goldstein, Maurice, Baltimore
 Goodman, Samuel A., Baltimore
 Gorfine, Charles, Baltimore
 Gottling, Philip F., Baltimore
 Grafflin, Frank W., Baltimore
 Graves, John F., Baltimore
 Gross, Casper J., Baltimore
 Greenberg, Eugene L., Baltimore
 Hammel, Eugene J., Baltimore
 Hannan, John P., Baltimore
 Harris, Solomon H., Baltimore
 Hart, William S., Baltimore
 Harvey, James E., Salisbury
 Herzfeld, Bernard H., Baltimore
 Hindin, Sidney B., Baltimore
 Hoffman, Hollen B., Baltimore
 Horwitz, Milton G., Baltimore
 Howard, Benjamin C., Jr., Baltimore
 Hughes, Randolph, Felton, Del.
 Ireton, John F., Baltimore
 Jacobson, Bernard, Baltimore
 Jaworski, Valentine J., Baltimore
 Johnson, Edw. Thos., Relay
 Johnson, John T., Baltimore
 Katz, Harry, Baltimore
 Kessler, John H., Baltimore
 Kitko, Jos. E., Ramey, Pa.
 Kloze, Alexander, Baltimore
 Knapp, John Philip, Overlea
 Knecht, Alphonse F., Baltimore
 Koontz, Chas. N., Baltimore
 Lampke, Phillip H., Baltimore
 Land, Normand H., Baltimore
 Lavelle, Harry P., Baltimore
 Leithiser, Wm. D., Havre de Grace
 Levi, Sidney, Baltimore
 Levin, Abraham, Baltimore
 Levin, Joseph, Baltimore
 Levin, Louis, Baltimore
 Libauer, Leo, Baltimore
 Libauer, Meyer, Baltimore
 Lion, Simon J., Jr., Baltimore
 Lochbochler, George L., Baltimore
 Luebbers, Wm. E., Baltimore
 Lyons, Charles C., Baltimore
 MacClain, Joshua F., Wheeling, W. Va.

Margolis, Abraham L., Baltimore
 Mason, John S., Baltimore
 McKay, Douglas A., Baltimore
 Medinger, Irwin D., Baltimore
 Menchine, Wm. A., Baltimore
 Merin, Abraham, Baltimore
 Meurer, Henry W., Jr., Baltimore
 Meyer, Elbert J., Baltimore
 Miller, Boniface A., Baltimore
 Miller, Clarence L., Baltimore
 Miller, Frederick D., Baltimore
 Miller, Herman, Baltimore
 Moss, Albert, Baltimore
 Nachman, Joseph I., Baltimore
 Nachman, Wm., Newport News, Va.
 Newman, Maurice E., Trappe
 Niner, Clarence F., Baltimore
 Nordenholz, Sophie K., Baltimore
 O'Connor, Robert J., Baltimore
 O'Dell, Arthur E., Baltimore
 Ohlendorf, Albert V., Baltimore
 Paltieloff, Sidney, Baltimore
 Papa, Samuel, Baltimore
 Pekar, Alfred L., Baltimore
 Peters, Lawrence J., Baltimore
 Petrik, Louis E., Overlea
 Pierson, Edw. D., Baltimore
 Pococh, Albert E., Monkton
 Posner, Nathan, Baltimore
 Price, Jay S., Snow Hill
 Prissman, Harold H., Baltimore
 Rades, Vincent T., Baltimore
 Reiblich, George K., Woodlawn
 Reichett, Arthur J., Baltimore
 Renshaw, James G., Baltimore
 Richardson, Wm. L., Baltimore
 Robinson, Aaron, Baltimore
 Rosenthal, Albert N., Baltimore
 Rosenthal, Jos., Baltimore
 Rossmann, Jesse R., Catonsville
 Rowles, Albert F., Baltimore
 Rubenstein, Leon A., Baltimore
 Sachs, Harry M., Baltimore
 Sagel, Louis, Baltimore
 Samuelson, Walter, Baltimore
 Sarders, John A., Baltimore
 Schapiro, David, Baltimore
 Scherr, Irvin, Baltimore
 Scherr, Jerome G., Baltimore
 Shea, James M., Baltimore
 Sherwood, Wm. D., Baltimore
 Shipper, James A., Baltimore
 Shmuckler, Ben, Baltimore
 Shriver, George M., Jr., Pikesville
 Siegael, Irvin, Baltimore
 Siegel, Maurice, Baltimore
 Silverman, Harrey, Baltimore
 Sinn, John F., Hagerstown
 Skop, Jacob, Baltimore

Slatkin, Mortimer, Baltimore
 Sollers, James R., Sollers
 Sopher, Maurice, Baltimore
 Sterling, Norris P., Crisfield
 Sterling, Thos. K. N., Waverly
 Stinchcomb, Chas. J., Baltimore
 Stuart, George A., Baltimore
 Stulman, Leonard E., Baltimore
 Temple, Phillip, Baltimore
 Thaiss, John N., Baltimore
 Thomas, A. Chase, Baltimore
 Thomas, N. Woolford, Baltimore
 Travers, Wm. W., Nanticoke
 Vail, James W., Baltimore

Vangsness, George B., Baltimore
 Waldmann, Anthony W., Fullerton
 Watson, X. J., Baltimore
 Wilson, Bruce C., Funkstown
 Wachter, Samuel S., Hagerstown
 Warner, Douglas R., Baltimore
 Wells, Walter H., Baltimore
 White, John J., Baltimore
 Willey, Lorain W., Lansdowne
 Willhide, Paul A., Baltimore
 Wilson, Edw., Darlington
 Wilson, Emory J., Baltimore
 Wyatt, Arthur R., Baltimore
 Young, Kendall A., Baltimore

FRESHMAN DAY CLASS

Abell, Robert L., Baltimore
 Bennett, Homer B., Federalsburg
 Berman, Jacob, Baltimore
 Blum, Jacob, Baltimore
 Bond, Cornelius C., Cockeysville
 Brocato, Charles V., Baltimore
 Broening, William F., Baltimore
 Brown, James D., Baltimore
 Carozza, Eugene M., Catonsville
 Casey, Mary E., Baltimore
 Cinelli, Nicholas A., New York City
 Coogan, Edwin, Charles
 Coughlin, Thomas W., Baltimore
 Cox, Hewlett B., Baltimore
 Digristine, Philip, Baltimore
 Dimarco, Frank A., Baltimore
 Doub, Donald J., Middletown
 Epstein, Samuel, Baltimore
 Fusco, Ernest F., New Haven, Conn.
 Gordon, Stewart E., Easton
 Hale, William T., Baltimore
 Hirschmann, Joseph R., Baltimore
 Holt, Charles T., Baltimore
 Hurwutz, Isidore D., Baltimore
 Iseman, Samuel B., Jr., Baltimore
 Janophy, Louis, Baltimore
 Julian, Lewis, Wilmington, Del.
 Kenney, John H., Naugatuck, Conn.
 Kirsner, Raymond B., Hampton, Va.
 Klein, David, Baltimore
 Klug, Alan V., Baltimore
 Kobren, William, Bayonne, N. J.
 Krelow, Melvern R., Baltimore
 Mackwig, Edward, Baltimore

Marcin, Thomas G., Stemmers Run
 Marciniak, John A., Baltimore
 Martin, Edwin G., Relay
 McCoy, George G., Baltimore
 Merrill, Yale, Baltimore
 Millhouser, Henry M., Baltimore
 Mooney, Paul R., Baltimore
 Neuberger, Alvin, Baltimore
 O'Brien, Edward A., Baltimore
 Phillips, Watson, Cambridge
 Preston, Wilbur J., Baltimore
 Reed, Joel H., Stafford Springs, Conn.
 Renzi, William A., Baltimore
 Rivkin, Leon, Baltimore
 Roman, Donald P., Baltimore
 Rutherford, John O., Baltimore
 Scherr, Percy, Baltimore
 Schlessinger, Arthur, Baltimore
 Schloss, Irvin, Baltimore
 Schwartzman, Louis, Baltimore
 Seabolt, Martin W., Jr., Baltimore
 Stark, Charles H., Fullerton
 Stein, William J., Baltimore
 Storch, Moe L., Baltimore
 Swiskowski, Bernard C., Baltimore
 Tompkins, Thomas B., St. Albans, W. Va.
 Trojakowski, Chester A., Schenectady, N. Y.
 Wagaman, John, Hagerstown
 Waltman, J. Franklyn T., Baltimore
 Wells, William J., Jr., Joppa
 White, L. Honaker, Princeton, W. Va.
 Woodward, James G., Annapolis
 Genitz, Oscar W., Baltimore
 Zenovitz, Lewis H., Norfolk, Va.

IRREGULAR STUDENTS

Alexander, John G., Atlanta, Ga.
 Arnold, Charles G., Brunswick
 Bounds, Wade G., Baltimore
 Boswell, John W., Baltimore
 Bousman, Floyd W., Baltimore

Budnitz, Emil A., Baltimore
 Corcoran, John N., Baltimore
 Druery, Oliver K., Baltimore
 Ford, John G., Baltimore
 Horine, Dawson, Myersville

Jacobs, Sidney M., Baltimore
 Johns, Thos. M., Baltimore
 Jones, Edw. C., Baltimore
 Kramer, John E., Baltimore
 Lambert, Milton F., Baltimore
 LeViness, Charles T. Jr., Baltimore
 Levinson, Saul, Baltimore
 Maher, Edw., Baltimore
 Mindel, Hyman, Baltimore

Perry, M. Graydon, Baltimore
 Reed, Rob't. R., Brunswick
 Richardson, Standley L., Baltimore
 Siegrist, Louis J., Baltimore
 Sinnott, Katherine, Baltimore
 Townsend, Miles D., Randallstown
 Wegner, Roland M., Baltimore
 Wellmore, Grace L., Baltimore

SCHOOL OF MEDICINE

SENIOR CLASS

Anker, Harry, Cleveland, Ohio
 Askin, Aaron J., Baltimore
 Ballard, Margaret B., Greenville, W. Va.
 Beachley, Jack J., Hagerstown
 Blough, Homer C., Boswell, Pa.
 Bronstein, Irvin, C., Brooklyn, N. Y.
 Calvin, Warren E., Hagerstown
 D'Angelo, Antonio F., Providence, R. I.
 DeVincentis, Henry, Orange, N. J.
 Diamond, H. Elias, Bronx, N. Y.
 DiPaula, Frank R., Baltimore
 Dyer, Newman H., Webster Springs, W. Va.
 Eanet, Paul, Baltimore
 Edmonds, Chas. W., Baltimore
 Elliott, Julian C., Nelson, Va.
 England, Welch, Bluefield, W. Va.
 Finkelstein, Abraham H., Brooklyn, N. Y.
 Freedman, Herman, Freehold, N. J.
 Freedman, Max, Newark, N. J.
 Freuder, Arthur N., Brooklyn, N. Y.
 Geraghty, Francis J., Baltimore
 Gerber, Isadore E., Baltimore
 Gordon, Abel, Passaic, N. J.
 Gorham, Herbert J., Tarboro, N. C.
 Graham, John W., Baltimore
 Helfond, David M., Brooklyn, N. Y.
 Hendrix, Nevins B., Port Deposit
 Hibbitts, John T., Baltimore
 Hyman, Calvin, Baltimore
 Jensen, Jacob R., Baltimore
 Johnson, Philip, Roncerverte, W. Va.
 Jolson, Meyer S., Baltimore
 Knapp, Alphonse J., Baltimore
 Krosnoff, John A., Cokeburg, Pa.
 Lavy, Louis T., Baltimore
 Leake, Everette M., Rich Square, N. C.

Levin, H. Edmund, Baltimore
 Levin, Isadore L., Lorain, Ohio
 Levin, Joseph, Newark, N. J.
 Loftin, Wm. Frank E., Mt. Olive, N. C.
 Lumpkin, Lloyd U., Baltimore
 Lusby, Frank F., Baltimore
 Manginelli, Emanuel, New York City
 Merkel, Walter C., Hamburg, Pa.
 Miller, Harry G., New York City
 Moriconi, Albert F., Trenton, N. J.
 Polsue, Wm. C., Charleston, W. Va.
 Rattenni, Arthur, Providence, R. I.
 Rosenberg, Albert A., Wilkensburg, Pa.
 Rosenfeld, Max H., Baltimore
 Rothberg, Abraham S., New York City
 Sashin, David, New York City
 Sax, Benjamin J., Brooklyn, N. Y.
 Schenker, Paul, Baltimore
 Schmukler, Jacob, Newark, N. J.
 Schneider, David, Baltimore
 Schuman, Wm., Baltimore
 Schwartz, Ralph A., Newark, N. J.
 Scullion, Arthur A., Grantwood, N. J.
 Sherman, Elizabeth B., Front Royal, Va.
 Spano, Frank, New York, N. Y.
 Tayntor, Lewis O., Erie, Pa.
 Teagarden, E. V., Cameron, W. Va.
 Teitelbaum, Maurice L., Brooklyn, N. Y.
 Tobias, Herbert R., Hancock
 Trubek, Max, Carlstadt, N. J.
 Weinstein, Samuel, Freehold, N. J.
 Weiss, Louis L., Brooklyn, N. Y.
 Weseley, Louis J., Brooklyn, N. Y.
 Whicker, Guy L., Winston-Salem, N. C.
 Wolfe, Samuel B., Baltimore

JUNIOR CLASS

Adzina, Joseph M., Bridgeport, Conn.
 Aptaker, Albert J., Brooklyn, N. Y.
 Armacost, Joshua H., Owings Mills
 Ball, Claude R., Morgantown, W. Va.
 Bankhead, John M., Lowrys, S. C.

Barnett, Edwin D., Santa Rosa, California
 Bosil, George C., Annapolis
 Belsky, Hyman, Mt. Vernon, N. Y.
 Benesunes, Joseph G., Baltimore
 Bialostosky, Julius, Brooklyn, N. Y.

Birnbaum, Joseph O., Bronx, N. Y.
 Cadden, John F. Jr., Keyser, W. Va.
 Carey, Thos. N., Baltimore
 Chase, Wm. W., Baltimore
 Clemson, Earle P., Baltimore
 Cohen, Bernard J., Baltimore
 Cohen, Morris D., New Rochelle, N. Y.
 Condry, Raphael J., Baltimore
 Covington, Elijah E., Linden, N. C.
 Davis, Henry V., Berlin
 Donchi, Sol. M., Newark, N. J.
 Eliason, Harold W., Rowlesburg, W. Va.
 Feldman, Jacob, Bronx, N. Y.
 Fidler, Kemp A., Tioga, W. Va.
 Friedman, Meyer H., Trenton, N. J.
 Garner, Wade H., Brewton, Ala.
 Gellar, Abraham, Brooklyn, N. Y.
 Gill, Charles E., Harrington, Del.
 Gillis, Francis W., Baltimore
 Ginsberg, Henry, Baltimore
 Glick, Bernard, Lyndhurst, N. J.
 Goldberg, Isidore, Dunellen, N. J.
 Goldstein, Milton, J., Brooklyn, N. Y.
 Heisley, Rowland S., Baltimore
 Hewitt, John F., Baltimore
 Hoke, Dwight M., Organ Cave, W. Va.
 Hummel, Lee C., Salem, N. J.
 Iglitzin, Maurice A., New York City
 Johnson, Jesse R., Huntington, W. Va.
 Kahan, Philip J., Bronx, N. Y.
 Karns, Clyde F., Cumberland
 Kayser, Fayne A., Baltimore
 Klawans, Maurice F., Annapolis
 Kutner, Charles, Camden, N. J.
 Lassman, Samuel, New York City
 Lazow, S. M., New York City
 Lenson, Byruth K., Baltimore
 Leyko, Julius J., Baltimore

SOPHOMORE CLASS

Aiau, Chadwick K., Honolulu, Hawaii
 Baer, Adolph, Brooklyn, N. Y.
 Bedri, Marcel R., Tel Aviv, Palestine
 Berger, Wm. A., Bloomfield, N. J.
 Bernhard, Robert, New York City
 Blecherman, Irving E., Brooklyn, N. Y.
 Bonelli, Nicholas W., Lyndhurst, N. J.
 Brager, Simon, Baltimore
 Chor, Herman, Baltimore
 Christian, Wm., Nanticoke, Pa.
 Dailey, Cornelius M., Steelton, Pa.
 Duckwall, Fred'k M., Berkeley Springs, W. Va.
 Friedman, Bernard, Brooklyn, N. Y.
 Gaffney, Charles B., New Britain, Conn.
 Gaskins, Theodore G., Bridgeton, N. C.
 Gelber, Jacob S., Newport, R. I.
 Gittleman, Isaac F., Baltimore
 Goldberg, Victor, Baltimore

Lilly, Goff P., Charleston, W. Va.
 Mattikow, Bernard, Brooklyn, N. Y.
 Milhoan, Asa W., Murraysville, W. Va.
 Misenheimer, Edd A., Concord, N. C.
 Moran, John E., Greenfield, Mass.
 Morris, Frank K., Baltimore
 Nussbaum, Samuel, Pine Hill, N. Y.
 Peake, Clarence W., Aflex, Ken.
 Phillips, John R., Quantico, Md.
 Reifschneider, Herbert E., Baltimore
 Saffell, James G., Baltimore
 Schuierer, Samuel B., Waterbury, Conn.
 Schwedel, John B., Baltimore
 Sparta, Anthony, Easton, Pa.
 Staton, Hilliard, V., Hendersonville, N. C.
 Stonesifer, Chas., Westminster
 Strayer, Helen C., Baltimore
 Swank, James L., Elk Lick, Pa.
 Swartzwelder, Wallace R., Mercersburg, Pa.
 Talbot, Henry P., LaFayette, Ala.
 Tayloe, Gordon B., Arelander, N. C.
 Teague, Francis B., Martinsville, Va.
 Thompson, Thos. P., Forest Hill
 Tollin, Louis, Newark, N. J.
 Totterdale, Wm. G., Baltimore
 Tumminello, Salvatore A., Baltimore
 Upton, Hiram E., Burlington, Vermont
 Voigt, Herman Albert, Baltimore
 Van Schulz, Augustine P., Baltimore
 Wack, Frederick V., Point Pleasant, N. J.
 Walsche, Frederick S., Sykesville
 Whittington, Claude T., Greensboro, N. C.
 Williams, Palmer F. C., Baltimore
 Wilner, Joseph Walter, New York City
 Wohlreich, Joseph J., Newark, N. J.
 Wollak, Theodore, Baltimore
 Yarbrough, Oscar D., Auburn, Ala.
 Zinn, Ralph H., Morgantown, W. Va.

Levy, Walter H., New York City
 Limbach, Earl F., Massillon, Ohio
 Little, Luther E., Darlington
 Littman, Irving I., Baltimore
 Lyon, Isadore B., Hagerstown
 Mace, John, Jr., Cambridge
 Maddi, Vincent M., Bronx, N. Y.
 Maged, A. J., Suffern, N. Y.
 Matsumura, Junichi, Maui, Hawaii
 McCeney, Robert S., Laurel
 McFaul, Wm. N., Jr., Baltimore
 McGovan, Joseph F., McKees Rocks, Pa.
 McKee, Albert Vincent, Philadelphia, Pa.
 Meister, Aaron, Brooklyn, N. Y.
 Merksamer, David, Brooklyn, N. Y.
 Merlino, Frank A., Hammonton, N. J.
 Messina, Vincent M., Baltimore
 Mostwill, Ralph, Jersey City, N. J.
 Neuman, Finley Frederick, Cleveland, Ohio
 Parker, Joseph W., Kelford, N. C.
 Pegues, Wm. Leak, Kollock, S. C.
 Piacentine, Pasquale A., New York City
 Pileggi, Peter, Newark, N. J.
 Postrel, Lewis L., Brooklyn, N. Y.
 Rascoff, Henry, Brooklyn, N. Y.
 Rich, Benjamin S., Catonsville
 Roetling, Carl P., Baltimore
 Rosen, Marks J., Brooklyn, N. Y.

FRESHMAN CLASS

Abramowitz, Max, Brooklyn, N. Y.
 Ackerman, Jacob H., Brooklyn, N. Y.
 Agnelli, Junius B., New York City
 Albaugh, Guy C., Mt. Wolf, Pa.
 Alessi, Silvio A., Baltimore
 Anderson, Walter A., Baltimore
 Arnes, Lawrence G., Carbondale, Pa.
 Bardfeld, Benjamin, Vineland, N. J.
 Barland, Sam, Jr., Westchester, N. Y.
 Birely, Morris F., Thurmont
 Bongiorno, Henry D., Passaic, N. J.
 Botsch, Bernard, Alliance, Ohio
 Bounds, James A., Sharptown
 Bowen, James P., Belton, S. C.
 Brauer, Selig L., Jersey City, N. J.
 Buchness, Joseph V., Baltimore
 Buckler, Milburn A., Dares
 Calas, Andres E., Manzanillo, Cuba
 Chambers, E. L., Baltimore
 Chapman, Wm. H., Baltimore
 Ciccone, Arnold W., Providence, R. I.
 Cohen, Herman, Trenton, N. J.
 Cohen, Jacob H., Baltimore
 Cohen, Paul, Baltimore
 Cohen, Samuel, Greensburg, Pa.
 Connell, Raphael J., Lilly, Pa.
 Coppola, Matthew J., Bronx, New York City
 Corsello, Joseph N., Brooklyn, N. Y.

Rubinstien, Hyman S., Baltimore
 Rutter, Joseph H., Baltimore
 Saffron, Morris Harold, Passaic, N. J.
 Sardo, Samuel Philip, Johnstown, Pa.
 Silvet, Abraham, New Haven, Conn.
 Singer, Jack J., Baltimore
 Smith, L., Brooklyn, N. Y.
 Smoot, Aubrey C., Fullerton
 Smoot, Merrill C., Oxford
 Stacy, Theodore E., Jr., Blairsville, Pa.
 Tannenbaum, Morris, Bronx, N. Y.
 Taylor, Charles Vivian, Baltimore
 Tenner, David, Baltimore
 Tkach, Nathan, New York City
 Varney, Wm. H., Baltimore
 Vernaglia, Anthony P., Bronx, N. Y.
 Vogel, S. Zachery, Brooklyn, N. Y.
 Volenick, Lee Jos., Brooklyn, N. Y.
 Walter, Frank Pierce, Baltimore
 Ward, Hugh Walter, Owings
 Warner, Carroll Gardner, Baltimore
 Weintraub, Fred S., Baltimore
 Weiss, Aaron, Brooklyn, N. Y.
 Weisenfeld, Nathan, Hartford, Conn.
 Wilkerson, Albert R., Baltimore
 Wolf, Frederick S., Baltimore
 Wurzel, Milton, Newark, N. J.
 Zimmerman, Fred T., Philadelphia, Pa.

Kelly, Clyde E., Scottdale, Pa.
 Kemp, Alexander B., Catonsville
 Kerrigan, Timothy Robert, Rockwood, Pa.
 Kirschner, Abe Edw., Bronx, N. Y.
 Knight, Walter P., Throop, Pa.
 Leonard, Leo F., Scranton, Pa.
 Levi, Ernest, Baltimore
 Liner, Samuel J., Waynesville, N. C.
 Lowry, James P., Scranton, Pa.
 Lukesh, Stephen M., Wyoming, Pa.
 Lynn, Cy Kellie, Hickory, N. C.
 Lynn, Irving, Jersey City, N. J.
 Lynn, III, John Gallaway, Cumberland
 Magovern, Thos. Francis, South Orange, N. J.
 McAndrew, Joseph T., Clarksburg, W. Va.
 McGregor, Alpine W., St. George, Utah
 Mednick, Benjamin W., Brooklyn, N. Y.
 Meranski, Israel, Hartford, Conn.
 Morgan, Isaac J., Allegheny, Pa.
 Moseley, Edgar T., Baltimore
 Murphy, John E., Olyphant, Pa.
 Nagle, Carl R., Baltimore
 Nathanson, Nathan, Pittsburgh, Pa.
 Neistadt, Isidore I., Baltimore
 Newman, Saul Charles, Hartford, Conn.
 Nickman, Emanuel H., Atlantic City, N. J.
 O'Dea, John F., Elmira, N. Y.
 O'Donohue, Valentino A., Frankfort, N. Y.
 Osborn, A. Downey, College Park
 Overton, Louis N., Rocky Mount, N. C.
 Penchansky, Samuel J., Bayonne, N. J.
 Petruzzi, Joseph A., Brooklyn, N. Y.
 Porterfield, Maurice C., Baltimore

Powell, Joseph L., Scranton, Pa.
 Prager, Benjamin, Brooklyn, N. Y.
 Quinn, Thomas F., Scranton, Pa.
 Raffel, Leon, Baltimore
 Rapp, Edgar C., Bethel, Conn.
 Reeder, Paul A., Buckhannon, W. Va.
 Reilly, John V., Newark, N. J.
 Roberts, Eldred, Westernport
 Safer, Jake V., Jacksonville, Fla.
 Safford, Henry T., Jr., El Paso, Texas
 Schreiber, Morris B., Brooklyn, N. Y.
 Schwartzbach, Saul, Brooklyn, N. Y.
 Seibel, Jack, Brooklyn, N. Y.
 Sejda, Martin B., Bridesburg, Pa.
 Sekerak, Raymond A., Bridgeport, Conn.
 Serra, Lawrence M., Brooklyn
 Sikorsky, Albert E., Baltimore
 Silver, Mabel Irene, Baltimore
 Snyder, Nathan, Baltimore
 Soifer, Albert A., Baltimore
 Solomon, Milton, Brooklyn, N. Y.
 Speicher, Wilbur G., Accident
 Spencer, Ernest, Bel Alton
 Spurrier, Oliver W., Baltimore
 Staton, Leon R., Hendersonville, N. C.
 Stevenson, Charles C., Salt Lake, Utah
 Stone, Jesse E., Emmitsburg
 Sullivan, Wm. Joseph, Baltimore
 Ullrich, Henry F., Baltimore
 Vann, Homer K., Sebring, Fla.
 Wallack, Charles A., Newark, N. J.
 Werner, Aaron Seth, Brooklyn, N. Y.
 Yudkoff, Wm., Bayonne, N. J.

SPECIAL

Apgar, Dr. Raymond, Mt. Pleasant

SCHOOL OF NURSING

SENIOR CLASS

Allen, Naomi, Seaford, Del.
 Bond, Mildred A., Ashton
 Caples, Virginia Elizabeth, Baltimore
 Coates, Marian Jeanette, Elkridge
 Colbourne, Lillian Elizabeth, Hurlock
 Diehl, Sora W., Greensburg, Pa.
 Eller, Maybelle R., Baltimore
 Ewell, Betty, Baltimore
 Fink, Margaret Virginia, Berwyn
 Glover, Dorothy Rebekah, Hurlock

Hershey, Esther Elizabeth, Gap, Pa.
 Hurlock, Edna Myrtle, Eastport
 Mundy, Fannie Mae, Abbeville, S. C.
 Parks, Colgate C., Cockeysville
 Powel, Marian E., Govans
 Scott, Elizabeth, Frostburg
 Shoultz, Carol C., Anderson, Ind.
 Sperber, Elsie V., Baltimore
 Sperker, Theodora H., Baltimore

INTERMEDIATE CLASS

Baldwin, Estella Coates, Elkridge
 Blackburn, Hazel D., Port Deposit
 Bost, Stella P., Newton, N. C.

Foust, Eva A., Dundalk
 Gerber, T. Rhae, Hagerstown
 Hall, Rebecca J., Baltimore

Henderson, Jane Grace, San Diego, Calif.
 Hoffman, Celeste E., Baltimore
 Holloway, Ethel C., Hebron
 Holt, Agnes Louise, Seaford, Del.
 Jackson, Virginia E., Newark
 Jarrell, Emma E., Chestertown
 Kirk, Mary Jane, Tannery, Pa.
 Krause, Beatrice L., Frostburg

Royster, Lucy, Henderson, N. C.
 Seiss, Theodosia, Rocky Ridge
 Smith, Nancy L., White Stone, Va.
 Wallis, Louisa M., North East
 Whitaker, Ora C., Laurinsburg, N. C.
 Winship, Emma A., Baltimore
 Young, Grace Wlk, Taneytown

JUNIOR CLASS

Allen, Eugenia K., Big Stone Gap, Va.
 Anderson, Mary E., Deals Island
 Batt, Rosa Lee M., Davis, W. Va.
 Berry, Elizabeth A., Martinsburg, W. Va.
 Craigmile, Catherine N., Frederick
 Cunino, Virginia F., Norfolk, Va.
 Currens, Margaret E., Sykesville
 Dugger, Hilda L., Boswell, Pa.
 Feddeman, Althea G., Sanford, Va.
 Hall, Edith E., North East
 Hamblin, Hetty B., Whaleyville
 Hamrick, Irene E., Hickory, N. C.
 Hastings, Martha A., Delmar, Del.
 Hinson, Blanche B., Foxwell, Va.
 Hoffman, Anne E., Woodsboro
 Hough, Goldie I., Boyds
 Huddleston, Thelma L., Raleigh, N. C.
 Kelly, Mary T., Ocean City

Leishear, Frances M., Brookeville
 Magruder, Martha A., Baltimore
 Marcus, Mildred M., Williamsport, Pa.
 Meader, Dorothy S., Cumberland
 Pearce, Marie C., National
 Pennewell, Elizabeth S., Berlin
 Peterman, Maude M., Indiana, Pa.
 Powell, Roxie M., Bishop
 Priester, Elizabeth A., Catonsville
 Priester, Mary C., Catonsville
 Riffle, Margaret M., Emmitsburg
 Roth, Katherine L., Morgantown, W. Va.
 Shorb, Dorothy I., Rocky Ridge
 Slacum, Emily R., Delmar, Del.
 Smith, Vada B., Baltimore
 Tayman, Nina M., Annapolis
 Wagner, Grace B., Table Rock, Pa.
 Work, Elizabeth R., Dallastown, Pa.

SCHOOL OF PHARMACY

SENIOR CLASS

Adalman, Philip, Baltimore
 Batie, Albert L., Cumberland
 Bauer, John C., Baltimore
 Baylus, Meyer M., Baltimore
 Beck, Jesse P., Smithsburg
 Beitler, Samuel D., Baltimore
 Benick, Carroll R., Baltimore
 Berger, Wm. S., Baltimore
 Bergner, Samuel Wm., Baltimore
 Bernstein, Joseph, Baltimore
 Binkley, Leavitt H., Hagerstown
 Blum, Joseph S., Baltimore
 Bradford, John H., Grafton, W. Va.
 Budacy, Frank Milton, Baltimore
 Budacy, Peter Thos., Baltimore
 Cardell, Jeremiah C., Bristol, Vt.
 Catlett, Ollie Edwin, Cumberland
 Cermak, Bertha M., Baltimore
 Cermak, James Jos., Baltimore
 Clayman, David S., Baltimore
 Cohen, Archie R., Baltimore
 Cohen, Irvin J., Baltimore
 Cohen, Max H., Baltimore
 Cohen, Saul Chas., Baltimore
 Cooper, Morris, Baltimore

Crandall, Charles Robert, Annapolis
 Cwalina, Benjamin C., Baltimore
 Diamond, Bernard J., Roanoke, Va.
 Drukman, Herman B., Baltimore
 Eybr, Earl Frances, Baltimore
 Fisher, Delphia F., Jr., Baltimore
 Fitez, George R., Hagerstown
 Flescher, Julius, Baltimore
 Fuqua, Robert D., Baltimore
 Gakenheimer, Albert C., Baltimore
 Gaver, Herman S., Myersville
 Ginsberg, Harry, Baltimore
 Gleiman, Isidore J., Baltimore
 Goldstein, Isadore A., Baltimore
 Goldstein, Samuel W., Baltimore
 Goodman, Julius H., Baltimore
 Gordon, Jack B., Baltimore
 Gottdiener, Elvin E., Baltimore
 Grollman, Ellis, Baltimore
 Haskell, Marian L., Lutherville
 Hershner, John F., Govans
 Hershowitz, Clara, Baltimore
 Karasik, Wm., Baltimore
 Katz, Herbert A., Baltimore
 Kellough, Charles I., Howardville

Kolman, M. Alfred, Baltimore
 Kraus, Louis H., Baltimore
 Kramer, Phil, Baltimore
 Lesser, Abraham D., Baltimore
 Levin, Joseph, Baltimore
 Levy, Morris Z., Baltimore
 Lewis, F. Harold, Baltimore
 Lipsky, Harold, Baltimore
 Lipskey, Joseph, Baltimore
 Lum, Max Robert, Boonsboro
 Maczis, Wm. Joseph, Baltimore
 Martin, Thomas A., Asbestos
 Martz, Ernest Wm., Herndon, Va.
 Maserowitz, Louis, Baltimore
 Meagher, Harry R., Baltimore
 Meyers, Louis L., Baltimore
 Miller, Israel, Baltimore
 Millett, Joseph, Baltimore
 Misler, Bernard, Baltimore
 Moore, George Richard, Stratford, Conn.
 Noll, Violet B., Baltimore
 Norman, Herman, Baltimore
 Price, Carroll F., Baltimore
 Racusin, Nathan, Baltimore

Rosen, Harry, Baltimore
 Rosenfeld, Albert, Baltimore
 Rosenstein, Aaron, Baltimore
 Saslaw, Israel, Baltimore
 Schnabel, Wm. Thos., Baltimore
 Schneider, Jack, Washington, D. C.
 Schwartz, Harry, Baltimore
 Sears, Joseph E., Essex
 Shure, Bernard Gilbert, Baltimore
 Sienkiewicz, Edmund H., Baltimore
 Sklar, Isidore, Baltimore
 Skup, David A., Baltimore
 Smith, Bernard T., Frederick
 Snyder, Paul J., Boonsboro
 Stine, Harry, Baltimore
 Taub, Stanley
 Timmons, William, Claiborne
 Webster, Samuel Earl, Cambridge
 Wich, Carlton E., Baltimore
 Wolfe, Morris, Baltimore
 Yarmack, Morris, Baltimore
 Ziegler, John H., Baltimore
 Zvares, Simon, Baltimore

JUNIOR CLASS

Abramowitz, Robert Nathan, Baltimore
 Albrecht, Wm. F., Baltimore
 Arcilesi, Anna A., Baltimore
 Barry, Wilbur F., Baltimore
 Beal, Cecil F., Frostburg
 Belford, Joseph, Baltimore
 Bell, John F., Baltimore
 Bercowitz, Bernard J., Baltimore
 Berman, Hyman, Baltimore
 Bernstein, Joseph, Baltimore
 Blumson, Samuel, Baltimore
 Bretzfelder, Benjamin, Washington, D. C.
 Brinson, Adinirian J., Laurinburg, N. C.
 Cannaliato, Vincent James, Baltimore
 Chandler, Wm. W., Cape Charles, Va.
 Christ, Frank P., Hughesville
 Cohan, Nathaniel T., Trenton, N. J.
 Cohen, Benjamin B., Baltimore
 Cohen, Isadore I., Baltimore
 Cohen, Isidore, Baltimore
 Cohen, Louis, Point Pleasant, N. J.
 Daskais, Morris Hyman, Baltimore
 Delcher, Rodgers, Baltimore
 Delson, Hyman, Baltimore
 Dembeck, Walter D., Baltimore
 Dickman, Hyman, Baltimore
 Doty, Elmer C., Baltimore
 Eichert, Herbert, Woodlawn
 Etzler, Samuel A., Monrovia
 Fitzsimmons, Milton J., Baltimore
 Glass, Albert J., Baltimore

Goodman, Daniel, Baltimore
 Greenbaum, Samuel L., Baltimore
 Greenfeld, Charles, Baltimore
 Greif, Daniel, Baltimore
 Greif, Julius, Baltimore
 Griffith, Gilbert R., Eckhart Mines
 Gross, Wm., Baltimore
 Hahn, Charles J., Baltimore
 Hantman, Irving, Baltimore
 Heer, Wilmer Jacob, Baltimore
 Hugemather, Elizabeth S., Towson
 Heyda, Theodore George, Baltimore
 Hoffman, Aaron, Baltimore
 Hoffman, Harry, Baltimore
 Horine, Randolph A., Westminster
 Hudgins, Bailey D., Mathews, Va.
 Itzoe, Andrew J., New Freedom, Pa.
 Jarvis, Charles F., Centreville
 Kairis, John J., Baltimore
 Kalkreuth, Clyde N., Dundalk
 Kaminska, Janina, Baltimore
 Karpa, Isador, Arlington
 Kaylus, Edw. M., Baltimore
 Kremer, Casper L., Baltimore
 Kress, Milton B., Baltimore
 Krucoff, Maxwell A., Baltimore
 Kurek, Anthony T., Baltimore
 Langeluttig, Ira Lee, Baltimore
 Lazzaro, Samuel F., Baltimore
 Lebowitz, Harry, Baltimore
 Levin, Sidney, Baltimore

Levine, Vincent C., Baltimore
 Levinson, Milton, Baltimore
 Liberto, Joseph, Baltimore
 London, Samuel, Baltimore
 Luce, Harold D., New York City
 Maisel, Benjamin, Baltimore
 Manchey, Lessel L., Glen Rock, Pa.
 Margulies, Oscar, Baltimore
 Martocci, Filbert J., Baltimore
 Marx, Ernest B., Baltimore
 Matassa, Vincent L., Baltimore
 McAllister, Benjamin, Cambridge
 McFarland, Robert E., Baltimore
 McGarry, Charles E., Baltimore
 McGill, John L., Kings Mountain, N. C.
 McGill, Robert L., Hagerstown
 McLaughlin, Jack M., Mercersburg, Pa.
 Mears, Lee Kerns, Salisbury
 Michel, George C., Baltimore
 Millard, Ruth, Baltimore
 Moffit, Edward, Salisbury
 Morgan, Alfred K., Baltimore
 Muir, Em. A., Baltimore
 Myers, Ellis Benjamin, Baltimore
 Nitsch, Charles A., Baltimore
 O'Connor, Rita F., Cumberland
 Olson, Frank, Baltimore
 Omansky, Samuel, Baltimore
 Ordakowski, Telesfor, Glenburnie
 Pagenhardt, Arthur E., Westernport
 Pogorelskin, Milton, Baltimore
 Portocarrero, Oscar V., San Juan, P. R.
 Pugatsky, David, Baltimore
 Raslavitch, Charles George, Baltimore
 Restivo, Philip Joseph, Baltimore
 Richardson, Chas. H., Baltimore
 Rodowskas, Christopher A., Baltimore
 Rome, Albert, Baltimore

Rosenberg, Julius L., Baltimore
 Rosenblatt, Sydney, Baltimore
 Rosenfeld, David H., Baltimore
 Rubin, Wm. Merwin, Baltimore
 Sachs, Abraham, Baltimore
 Sachs, Raymond, Baltimore
 Sadowski, Chas. D., Baltimore
 Sager, Bennie, Front Royal, Va.
 Sappe, Milton J., Woodlawn
 Saton, Marcus, Baltimore
 Saunders, Thomas S., Baltimore
 Schaumloeffel, Charles Edw., Woodlawn
 Schiff, Nathan, Baltimore
 Schlachman, Milton, Baltimore
 Schwartz, David, Baltimore
 Senger, Joseph Anton, Baltimore
 Sheselsky, Samuel J., Baltimore
 Silbert, Andrew W., Baltimore
 Silverman, Albert M., Baltimore
 Silverman, Sylvan Bernard, Baltimore
 Snyder, Jerome, Baltimore
 Songer, James, Hoopeston, Ill.
 Sothoron, Levin J., Jr., Duke, N. C.
 Spector, Harry, Baltimore
 Springer, L. Rex, Baltimore
 Stanbovsky, Louis, Point Pleasant, N. J.
 Stichman, Solomon, Baltimore
 Storch, Arthur, Baltimore
 Szczepkowska, Irene U., Union City, Conn.
 Tarantino, John T., Annapolis
 Theodore, Raymond M., Baltimore
 Trattner, James N., York, Pa.
 Weiner, Morton, Woodlawn
 Whitaker, Frank B., Laurinburg, N. C.
 Widoff, Gustav A., Baltimore
 Wilkerson, George P., Baltimore
 Wood, Medford C., Glen Rock, Pa.

THE SUMMER SCHOOL—1925

Abell, S. Daisy, St. Inigoes
 Abell, Emerald E., St. Inigoes
 Abrams, George J., Washington, D. C.
 Acheson, Elizabeth N., Washington, D. C.
 Albaugh, Mary L., New Market
 Albaugh, Rachel V., Libertytown
 Albee, Fredericka S., Laurel
 Amstutz, Anne, Holstead, Kans.
 Anderson, Minnie E., Salisbury
 Anderson, Myrtle S., Washington, D. C.
 Andrews, Evelyn, Cumberland
 Aman, Margaret, Hagerstown
 Anthony, Anne M., Denton
 Arnold, Abbie, Brentwood
 Bailey, Emma L., Centreville
 Baker, Margaret E., Frederick

Baldwin, Kenneth M., Baltimore
 Barnhill, Theresa M., Cumberland
 Bates, Byrtle Y., Germantown
 Baxter, Anna M., Chestertown
 Bayle, Edith M., Tilghman
 °Beachley, Ralph H., Middletown
 Beall, Susie C., Beltsville
 Beaumont, Dorothy, Ridgely
 Beaven, George F., Hillsboro
 Benjes, Gertrude, Baltimore
 *Bennett, Benjamin, Kenilworth, D. C.
 °Bennett, William L., Pocomoke City
 Besley, Florence E., Baltimore
 Biggs, Irma V., Frederick
 Billingsley, Georgie K., Brandywine
 Bishop, Elizabeth G., Bishopville

° Denotes graduate students.

°Bivens, Douglas M., Prince Frederick
 Blandford, Alma, College Park
 Bond, J. May, Union Bridge
 Boone, Athol B., Crisfield
 Booth, Rebecca A., Washington, D. C.
 °Boston, Josiah W., Berlin
 Boston, Pearl Berlin
 Bottum, Merritt H., Ridgewood, N. J.
 Bounds, M. Blanche, Salisbury
 Bourke, Mary L., Washington, D. C.
 Bowling, Marybeth, Marlboro
 Bowser, Katherine R., Williamsport
 Boyle, Elizabeth G., Frederick
 Brackbill, Frank Y., Berwyn
 Brashears, Florence P., Landover
 Bray, Nona D., Hyattsville
 °Brewer, Virginia F., Rockville
 °Bromley, Walter D., Pocomoke City
 Brookbank, Annie V., Charlotte Hall
 Brooks, Alice B., Washington, D. C.
 Brown, Ellegene A., Hyattsville
 Brown, Dorothy H., Centreville
 Brown, Henry, Washington, D. C.
 Brown, Irene R., Westminster
 Browne, Maude, Salisbury
 Browne, Mary Miller, Chestertown
 Burch, Alene C., Bryantown
 Burger, Mary H., Frederick
 °Burroughs, Eugene S., College Park
 Burroughs, Louise M., College Park
 Burton, Florence G., Pocomoke City
 Byron, Gilbert V., Baltimore
 Cadle, Pauline, Frederick Junction
 °Caldwell, John H., St. Michaels
 Callahan, Mary N., Cordova
 Caltrider, Samuel P., Westminster
 Caplis, Solomon, Baltimore
 Carlson, C. Allen, Delmar
 *Carter, John H., Washington, D. C.
 Casner, Helen W., Littlestown, Pa.
 Catlett, Bertha L., Brunswick
 Cecil, George W., Walkersville
 Chamberlin, Elsie E., Washington, D. C.
 Chambers, Angela W., Lusby
 °Chandler, Elmer K., Darlington
 Chandler, Miriam T., Nanjemay
 Charlton, Marion J., Williamsport
 Chichester, Lucy C., Aquasco
 Christmas, Edward A., Upper Marlboro
 Clayton, Louella M., Mt. Rainier
 °Clendaniel, George W., Clarksville
 Cliff, Marion L., Washington, D. C.
 Clifton, Marguerite, East New Market
 Cockrane, Laura C., Frederick
 Collins, Milton S., Berlin
 Combs, Rose M., Drayden
 Comer, Alverta E., Frederick

Connor, Bertha E., Cumberland
 °Cooke, Giles B., Gloucester, Va.
 Copeland, Mollie E., Cumberland
 Copeland, Rose E., Brunswick
 Crane, Evelyn, Washington, D. C.
 Creighton, Sue E., East New Market
 Crew, Edith H., Worton
 Cronin, Florence H., Aberdeen
 Cronin, Sarah H., Aberdeen
 °Crothers, J. Lawson, Hampstead
 *Crotty, Leo A., Utica, N. Y.
 Crumb, Mary R., Washington, D. C.
 Crumm, Julia I., Lisbon
 Culbertson, Mary E., Berwyn
 Currier, Elizabeth B., Havre de Grace
 Cush, Eileen T., Washington, D. C.
 Darby, Eleanor N., Germantown
 Davis, C. Maybelle, Pocomoke
 Davis, Eileen, Gaithersburg
 Davis, Frank R., Darlington
 Davis, George G., Collingdale, Pa.
 °Day, Frank D., Hyattsville
 Day, Gladys S., Damascus
 De Lashmutter, Alvida B., Frederick
 °Dent, Lettie M., Oakley
 Dick, J. McFadden, Salisbury
 Ditto, Lucy C. G., Sharpsburg
 Dix, Ethel M., Pocomoke City
 Donaghay, Percy S., Middletown
 Dowell, Luella E., Sunderland
 Dreyer, Marie, Cumberland
 Dronenburg, Margaret E., Ijamsville
 Dryden, George E., Snow Hill
 Duckwall, Margaret M., Berkeley Springs,
 W. Va.
 Dudderar, Dorothy F., Frederick Junction
 Dudrow, Helen, Walkersville
 Duke, Janet, Leonardtown
 °Duvall, Elizabeth S., Washington, D. C.
 Ebaugh, Olive R., Patapsco
 Elliott, Sarah V., Laurel
 Etchison, Julia E., Frederick
 Etzler, George L., Woodsboro
 °Eutsler, K. W., Pocomoke City
 °Evans, Jesse D., Crisfield
 Faith, William L., Hancock
 Farnham, Ralph W., Berlin
 Favorite, Ada C., Thurmont
 Ferguson, Lilly O., Cecilton
 Ferguson, Mary A., Cecilton
 °Fisher, Henry S., Hillsboro
 °Fisher, John W., Cumberland
 Flack, Cornelia M. M., Jessup
 Fleming, Agnes L., Denton
 Fleming, Christian M., Baltimore
 Fogle, Ethel I., Walkersville
 Fogle, Hazel L., Walkersville

° Denotes graduate students.

Forshee, Edith D., Washington, D. C.
 Forwood, Bessie, Forest Hill
 Fowler, Kathryn V., Charlotte Hall
 Foxwell, Erva R., Leonardtown
 °Frank, Paul S., Berlin
 Franklin, Sarah E., Thurmont
 Frazier, Karl B., Hurlock
 Free, Melvina S., Cumberland
 Frushour, Charles N., Myersville
 Fulgham, Evel, Washington, D. C.
 Fulks, Iva C., Gaithersburg
 Fulmer, Mary H., Frederick
 Gadd, John D., Centreville
 Ganoza, Luis F., Peru, S. A.
 °Gardner, George P., Middletown
 Gardiner, Mary C., Bryantown
 °Gates, Philip W., Rockville
 °Gifford, George E., Rising Sun
 Gladhill, Mary C., Emmitsburg
 °Glen, Wilbur J., Smithsburg
 Goldsmith, Caroline O., Waldorf
 Goldsmith, Kathleen M., Bel Alton
 Goode, Hazel N., Brunswick
 Gootee, Mary V., East New Market
 Gray, Nellie K., Sabillasville
 Green, Mary E., Boyds
 °Greenwell, James C., Leonardtown
 Griffith, Della M., Hurlock
 Griffith, Mary I., Forestville
 Gunby, Clara C., Salisbury
 Guyther, Claudia V., Valley Lee
 Hackett, Thomas P., Queen Anne
 Hadaway, Ella J., Rock Hall
 Hagan, Edith M., Frederick
 Hall, Annie L., Glenndale
 Hall, Catherine, Poolesville
 Halley, Lena E., Lanham
 Hamilton, Chloe C., New Market
 Harbaugh, Eva L., Sabillasville
 Hardy, Beulah, F., Kensington
 Hardy, Catherine I., Branchville
 Harman, Ethel M., College Park
 °Hartle, Rexford B., Hagerstown
 Hay, John O., Kensington
 Hayden, Beatrice, Pope's Creek
 Heber, Carl H., Cumberland
 Henderson, Eleanor B., Cumberland
 Hennick, Donald C., Baltimore
 Hetzsch, Marie P., Rocks
 Hicks, Anna E., Fairchance, Pa.
 Hicks, Fred C., Washington, D. C.
 Hileman, Julia M., Frostburg
 Hill, Elsie M., Cumberland
 Hiscox, Nell F., Silver Spring
 Hogarth, Beulah, Ijamsville
 Holmes, George K., Washington, D. C.
 Holter, Hazel, Frederick
 Holter, Ruth K., Frederick
 House, Elizabeth B., Flintstone

°Howard, Dowell J., Brookeville
 Hubbard, H. S., Cordova
 Hudson, Yola V., Cumberland
 Hughes, Harry R., Ammendale
 Hull, George R., Woodsboro
 °Isbell, Horace S., College Park
 Isenberg, Maude R., East New Market
 James, Berkley H., Sharptown
 James, Jennie P., Mt. Rainier
 Jarrell, Evelyn R., Hyattsville
 Jenness, Samuel M., Colora
 Jewell, Edgar G., Comus
 *Johnston, Charles A., College Park
 Judy, Gladys L., Cumberland
 Keane, Martin J., Riverdale
 Keister, Monroe F., Midlothian
 Keithley, Elva W., St. Michaels
 Keller, Minnie S., Buckeystown
 King, Laura C., Hagerstown
 King, Mary A., Brunswick
 Klein, Ethel L., LeGore
 Klein, T. S., Union Bridge
 °Knox, Lucy, College Park
 Kooker, Nellie R., Westernport
 °Krabill, Verlin C., Burkettsville
 Kroll, Wilhelmina, Lonaconing
 Kuhlkorff, Louise, Hyattsville
 Kyle, Wesley H., Waterbury
 °La Mar, Austin A., Jr., Middletown
 *Langenfeldt, Marie E., Hyattsville
 Larmore, Lloyd L., Hurlock
 Larmore, Mary R., Tyastin
 Leaman, Kathryn, Hyattsville
 Lewis, Celeste M., Glenndale
 Lockridge, Ruby N., Hyattsville
 Long, Anna V., Pocomoke City
 Long, Effie I., Williamsport
 Longyear, Edward B., Poplar Hill
 Love, Margaret, Lonaconing
 Love, Mildred, Lonaconing
 Lovell, Mary H., Brentwood
 Luecke, Clara E., Accident
 Manley, Catharine E., Midland
 Manley, Mary M., Midland
 Mann, Mary E., Sharptown
 Manning, Juliana, Accokeek
 Manning, Maud, Accokeek
 Marriotte, Nona V., Lander
 °Marshall, Housden L., Washington, D. C.
 Marshall, Susan E., St. Michaels
 °Martz, Grace S., Frederick
 °Massicot, Marie M., Columbus, Ga.
 Matsumura, Junichi, Wailuku, Mani, Hawaii
 McBride, Henry E., Brunswick
 McBride, Mabel E., Brunswick
 McCoy, Maud V., Beltsville
 McCoy, Philemon I., Beltsville
 McCullough, Alice, Laurel
 McFadden, Charlotte M., Elkton

*McGlone, Joseph L., Baltimore
 McGregor, Elizabeth, Upper Marlboro
 McKenney, John, Centreville
 °McKinnell, Isabel, Chester, S. C.
 Mead, Irene, College Park
 Merrick, Charles H. R., Barclay
 Merrill, William H., Pocomoke City
 Michael, Madge, Fairview, W. Va.
 Middlekauff, Lena L., Hagerstown
 Milburn, Rosa I., Scotland Beach
 Millar, Edna L., Ironsides
 Miller, Effie M., Beltsville
 Miller, Ottie E., Brunswick
 Miller, Ruby E., Hagerstown
 Moberly, Beulah D., Frederick
 *Moffitt, William J., Beltsville
 Molster, Jean L., Washington, D. C.
 Monday, Calphurnia W., Rockville
 Moore, Eleanor J., Colora
 Moore, Georgie B., Wicomico
 Moore, Marion S., Fruitland
 Moore, Mary O., Centreville
 Moore, Minnie M., East New Market
 Morrison, George W., Port Deposit
 °Morton, McKinley C., Clear Spring
 Mullen, Beulah O., Washington, D. C.
 °Mumford, John W., Jr., Newark
 Myers, Blanche J., Rockville
 Myers, Louise J., Frederick
 Neighbours, Anna L., Frederick
 Nelson, Clarissa A., Brentwood
 Nicol, Victorine G., Washington, D. C.
 Nuttle, Louise A., Denton
 Ogle, Edna K., Jefferson
 Ogle, Evelyn, Croome
 Oswald, Irene G., Smithsburg
 Owens, Doris E. C., Hanover
 Palmer, Ethel R., Myersville
 Palmer, Susan T., Abells
 Parker, A. Mae, Pittsville
 Parker, Hannah S., Havre de Grace
 Parker, Mildred E., Salisbury
 Parker, Vera, Brentwood
 Parsons, Mary E., Snow Hill
 Payne, Olive G., Anacostia, D. C.
 Pearce, Elisabeth Oakland
 Peacock, Evelyn, Massey
 Penman, Christena, Mt. Rainier
 Penny, Celeste L., Raleigh, N. C.
 Penny, Jessie L., Raleigh, N. C.
 Perdue, Catherine, Salisbury
 Perry, Louise H., Washington, D. C.
 Perry, Ruth L., Clear Spring
 Peterman, Walter W., Clear Spring
 Poe, Ruth Z., Hagerstown
 °Poffinberger, Glenn F., Highfield
 Poole, Gladys B., Hagerstown
 Post, Margaret G., Washington, D. C.
 Pryor, Beatrice, Smithsburg

Pryor, Commodore P., Smithsburg
 Pumphrey, Nellie L., Upper Marlboro
 Queen, Maria C., Waldorf
 Quillen, William P., Bishop
 Rabenhorst, Loretta C., Washington, D. C.
 Rasin, Harry R., Kennedyville
 *Reed, Emmons H., Denton
 Reeder, Harriet H., Morganza
 Reeder, Myrtle L., Clements
 Riall, Pauline E., Tyaskin
 Rice, Helen, Jefferson
 Rice, J. Earle, Frederick
 *Richardson, Harry F., Washington, D. C.
 Rider, Fanny R., Woodsboro
 Ritzel, Mary E., Westover
 Roberts, Fannie E., Washington, D. C.
 Robertson, Lillian G., Brentwood
 Robinette, Catherine G., Flintstone
 Robinson, Ella P., Chestertown
 Roe, Adrienne L., Centreville
 *Romjue, Andrew G., Capitol Heights
 Rose, Helen T., Hyattsville
 °Rowe, Effie M., Emmitsburg
 Rowe, F. Ruth, Emmitsburg
 Rowley, Gertrude V., Cumberland
 Rudkin, Mrs. Thomas L., Jessup
 °Russell, Edgar F., Washington, D. C.
 Russell, Ida F., Washington, D. C.
 Ryan, Lizzie A., Bishopville
 Rye, Lorraine M., Grayton
 Saffell, Mollie F., Reisterstown
 Schlaer, Regina M., Bowie
 Schnebly, Katie L., Williamsport
 Schott, Dorothy S., Washington, D. C.
 °Schott, Loren F., Washington, D. C.
 Schrader, Floyd F., Washington, D. C.
 Schrider, Peter P., Washington, D. C.
 Seltzer, Olive M., Washington, D. C.
 Sexton, Dorothy H., Salisbury
 Shank, Louilia E., Clear Spring
 Shea, Mary G., Tompkinsville
 °Shepard, Harold H., Vineland, N. J.
 Shives, Lena M., Big Pool
 Shoemaker, Henry R., Middletown
 Short, Anna L., Queen Anne
 Shugart, Gervis G., Street
 Slagle, Mary M., Jefferson
 Sleeman, Veronica, Frostburg
 Slemmer, Martha K., Frederick
 Smith, Alberta, Easton
 Smith, Frances, Walkersville
 Smith, Laura M., Butler, Ind.
 Smith, Miriam O., Rockville
 Smith, Nellie, Flintstone
 Smith, Paul W., Washington, D. C.
 Smith, Robert P., Washington, D. C.
 Snouffer, Helen J., Buckeystown
 Specht, Bettie A., Tuscarora
 Spencer, Ernest, Bel Alton

*Stanley, Edward A., College Park
 Stapleton, Margaret M., Cumberland
 Stauffer, Grace E., Edgemont
 Steele, Mary I., Clear Spring
 Stein, Josephine K., Berwyn
 °Stewart, J. Raymond, Street
 Stewart, Viola E., Street
 Stone, Helen N., Billingsley
 Stoner, Kenneth G., Hagerstown
 Stottlemeyer, Belva R., Smithsburg
 Strite, John H., Clearspring
 Stull, Robert, Frederick
 Supplee, William C., Washington, D. C.
 °Swenk, Elizabeth R., Washington, D. C.
 Sylvester, Lucille, Jonesboro, Tenn.
 Tan, Joseph H., Chen-chow-fu, Fu-kien, China
 *Taylor, Letha E., Riverdale
 Taylor, Naomi C., Clara
 Tenney, Edward M., Jr., Hagerstown
 Thomas, Mary E., Frederick
 Thompson, May, Fallston
 Tingle, Sallie K., Berlin
 Townshend, Mildred H., Bel Alton
 *Trower, Hugh C., Norfolk, Va.
 Troxel, Margaret W., Washington, D. C.
 Tull, Sydney M., Pocomoke
 Turner, Anna C., Riverdale
 Turner, N. Eva, Malcolm
 Underwood, Anna J., Hyattsville
 Underwood, Grace, Hyattsville
 Unkle, Lillian V., Piscataway
 Vaughan, Sarah M., Washington, D. C.
 Vivanco, Carlos D., Arequipa, Peru, S. A.
 Voshell, Ruth E., Centreville
 Wackerman, Rebecca V., Riverdale
 Wainwright, Irving H., Yorktown, Va.

Walters, Frank P., Cumberland
 Ward, Sarah J., Rockville
 Warren, Elizabeth, Snow Hill
 Warthen, Albert E., Monrovia
 Wathen, Leona E., Newport
 °Webster, Ralph R., Deals Island
 Weiland, Glenn S., Hagerstown
 Welch, Mary M., Ridge
 Wheat, Myra C., Chestertown
 Wheatley, Nellie W., East New Market
 White, Arthur P., Pittsville
 °White, Charles E., College Park
 White, Iris T., Salisbury
 Widmyer, Carmen E., Clear Spring
 Wilkins, Jessie E., Rock Hall
 Williams, Carl L., Frostburg
 Williams, Estelle D., Frostburg
 Williams, Kathryn, Birmingham, Ala.
 °Willis, Benjamin C., Federalsburg
 °Willis, Mrs. Benjamin C., Federalsburg
 Willis, Eleanor, Church Creek
 Willis, Eva H., Washington, D. C.
 Willison, Mary J., Cumberland
 Willison, Mildred E., Cumberland
 Wilson, N. John, Frederick
 Windsor, Alice E., Salisbury
 Windsor, Mattie E., Salisbury
 Wolfe, Kathleen, Frostburg
 Wolfinger, Edna D., Hyattsville
 Wolfinger, Mary L., Hagerstown
 °Worthington, Leland G., Berwyn
 Wroth, Margaret P., Darlington
 Wyvill, Ruth C., Upper Marlboro
 Young, George B., Clearspring
 Youngblood, Rubie W., Washington, D. C.
 Zepp, Gladys S., Taneytown
 Zilch, Helen J., Cumberland

SCHOOL OF BUSINESS ADMINISTRATION SUMMER SCHOOL

Allnutt, Robert W., Jr., Dawsonville
 Campbell, Bro. Noel, Baltimore
 Coney, Edgar H., Baltimore
 Corkran, Orville W., Rhodesdale
 Day, Seth Sears, Baltimore
 Dryden, Myrtle L., Baltimore
 Duffy, L. Edward, Frostburg
 Duitisher, Hannah, Baltimore
 Emich, Mildred, Baltimore
 Finifter, Joseph, Baltimore
 Greager, Oswald, Baltimore
 Klein, J. Solomon, Baltimore
 Kraft, M. Loretta, Baltimore
 Levi, Ernest, Baltimore
 Li, Henry, China
 Li, Richard T. F., China
 Lockard, Ralph, Patapsco
 Lusby, B. Russell, Baltimore

McKewen, John Leo, Baltimore
 Masters, Julian J., Lewisburg, W. Va.
 Moore, Genevieve, Baltimore
 Reck, Evelyn Mae, Baltimore
 Robinson, Reginald E., Toddville
 Rubenstein, Sidney S., Baltimore
 Schmidt, Oswald, Baltimore
 Seabolt, M. W., Jr., Baltimore
 Sieverts, Gustavus A., Baltimore
 Small, Helen D., Baltimore
 Smoot, Wm. Barton, Baltimore
 Snyder, Benjamin, Baltimore
 Strouff, William A., Baltimore
 Trageser, Charles A., Baltimore
 Weller, Nannie B., Baltimore
 Yates, J. Roger, Ellicott City
 Yeager, Robert L., Mineral Wells, Texas
 Zerhusen, Henry, Jr., Baltimore

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Any further information desired concerning the University
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